EPA Registration No. 87583-2 Vol. 2

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

Kevin Kutcel
Agent for PureShield Inc.
KRK Consulting LLC
5807 Churchhill Way
Medina,OH 44256

FFICE OF CHEMICAL SAFETY
ND POLLUTION PREVENTION

DEC 10 2013

SUBJECT: Bio-Protect AM 500
EPA Registration Number: 87583-2
Application Date: December 3, 2013
Receipt Date: December 9, 2013

Dear Mr. Kutcel:

This letter acknowledges receipt of the notification identified above submitted under provisions of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) as amended and PR Notice 98-10.

- Propose the alternate brand name: "XMicrobe".

Based on a review of the submitted information, this notification is unacceptable. Your proposed alternate brand name is false and misleading. It is too broad – you product is only a microbiostatic agent that inhibits the growth of odor causing bacteria, bacteria, which cause staining and discoloration, (fungi) mold and mildew and algae.

Additionally, you must pay attention to the Agency letter dated April 9, 2013 concerning use directions for padding, fogging and using foam finishing techniques.

General Comments

Should you have any questions concerning this letter, please contact Emilia Oiguenblik at (703) 347-0199 or Velma Noble at (703) 308-6233.

Sincerely,

for Velma Noble
Product Manager (31)
Regulatory Management Branch I
Antimicrobials Division (7510P)

XMicrobe

MICROBIOSTATIC AGENT *
A Silicone Quaternary Ammonium Salt

Active Ingredient: 3-(trimethoxysilyl) propyldimethyloctadecyl ammonium chloride	**5.0%**
Other Ingredients:	**95.0%**
TOTAL INGREDIENTS:	**100.0%**

KEEP OUT OF REACH OF CHILDREN

WARNING

EPA Reg. No. 87583-2 EPA EST. 74348-FL-001

NET CONTENTS: 2, 4, 8, 16, 20, 22, or 36 fluid oz.; 1, 5, 55, 150, or 300 gal.
Lot No. _____

FIRST AID
IF IN EYES: • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. • Call poison control center or doctor for treatment advice.
IF INHALED: • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
IF ON SKIN: • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
IF SWALLOWED: • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.

*A microbiostatic agent is an agent that inhibits the growth of odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.
This product does not protect users or others against food-borne or disease-causing bacteria.

PURESHIELD INC., 1445 Jupiter Park Drive, Suite 11, Jupiter, Florida 33458

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING: Causes substantial but temporary eye injury. Harmful if absorbed through skin or inhaled. Do not get in eyes. Avoid contact with skin and avoid breathing vapor.
Wear protective eyewear (goggles or face shield). Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

ENVIRONMENTAL HAZARDS

Commercial and industrial uses: This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

De-activation may be required during clean up if a spill occurs. De-activation of BIOPROTECT 500 can be achieved by the addition of anionic surfactant (such as soap, sulfonates, sulfates) in quantity equivalent to that of BIOPROTECT 500.

Homeowner use: This pesticide is toxic to fish. Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of pesticide.

DIRECTIONS FOR USE

Approved commercial and Industrial Applications

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles or face shield) and gloves when using this product. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry.

Prepare solution by simply adding BIOPROTECT 500 to water or other solvents (for example, alcohol and ketones) and stirring. BIOPROTECT 500 can be diluted by following:

Amount of Water	1 quart (32 fl. oz.)	0.5 gallon (64 fl.oz.)	1.0 gallon (128 fl. oz.)	5.0 gallons
BIOPROTECT 500	4 fluid ounces	8 fluid ounces	16 fluid ounces	80 fluid ounces

The solution can then be applied to organic or inorganic substrates by brushing, dipping, padding, soaking, spraying, fogging or by using foam finishing techniques.

Dry substrates at temperatures from ambient to a maximum of 160° C (320° F) to effect complete condensation of silanol groups and to remove water, solvents and/or traces of methanol from hydrolysis. Optimum application and drying conditions, such as time and temperature, should be determined for each application before use. If necessary, reapply BIOPROTECT 500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

BIOPROTECT 500 when used as a concrete additive is added directly concrete preparation. Use 6 fluid ounces BIOPROTECT 500 per cubic feet of concrete. Add to water before addition of concrete. Addition of BIOPROTECT 500 reduces deterioration of sewer pipes and manholes by inhibiting microbiologically induced corrosion.

BIOPROTECT 500 when used as an additive for paints and coatings is added directly during preparation of the paint or coating. Use 5 pounds of BIOPROTECT 500 per 100 pounds of paint or coating (or 1 pound BIOPROTECT 500 per 20 pounds paint/coating). The addition of the antimicrobial agent (BIOPROTECT 500) to paints at the point of manufacture preserves the paint in the can as well as the dried paint film. BIOPROTECT 500 inhabits the growth of odor causing bacteria, bacteria which causes staining and discoloration, fungi (mold and mildew), and algae on the surface of dried films and coatings.

Approved commercial and industrial applications

The active ingredient in BIOPROTECT 500 is effective against odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew) and algae as a static agent. BIOPROTECT 500 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

- Air Filters for furnaces, air-conditioners, air purification devices, automobiles, recirculating air handling systems.
- Air filters/materials
- Aquarium filter material
- Bed sheets, blankets, and bedspreads
- Buffer pads (abrasive and polishing)
- Carpets and draperies
- Cellulose sponges
- Concrete additive for sewer pipes, manholes and concrete sewer structures; not to be used in treatment of storm drains
- Concrete additive for repair and renewal of sewer pipes and manholes and concrete sewers structures; not to be used in treatment of storm drains
- Exterior walls (such as stone, concrete, brick)
- Fiberfill for upholstery, sleeping bags, apparel, where the fiber is cotton, natural down, nylon, polyester, rayon, or wool
- Fiberglass duct board
- Fire hose fabric
- Humidifier belts
- Mattress pads and ticking
- Men's underwear and outerwear
- Non-woven polyester

- Outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos)
- BIOPROTECT 500 can be used in paints and coatings as an in-can preservative for protection of paint film and coating film. Types of paints and coatings include: latex indoor/outdoor paints and stains, woodstains, architectural paints, lacquer and maintenance coatings, films, laminates and finishes including alkyd, urethane, enamel, epoxy, siloxaline, amino resins, textile coatings, extrusion, coatings, architectural coatings and overlays, anti-corrosion coatings, fire-resistant coatings, aliphatic coatings, vinylester and polyester coatings, gel coating, amino resins, resins used as additive mixes for cement, epoxy laminating resins, and blends and copolymers thereof;
- Polyurethane and cellulose foam for household, industrial, and institutional sponges and mops
- Polyurethane and polyethylene foam, when covered
- Polyurethane foam for packaging and cushioning in non-food contact applications
- Polyurethane foam used as a growth medium for non-food crops and plants
- Sand bags, tents, tarpaulins, sails, and ropes
- Athletic and casual socks
- Shoe insoles
- Shower curtains
- Socks comprised of nylon, nylon/orlon, cotton/nylon, linen/Lycra, acrylic/polypropylene, nylon, Lycra, wood/silk/nylon/Lycra and wool/acrylic/nylon/Lyrca
- Throw rugs Toweling made of 100 percent cotton, 100 percent polyester, and blends of the two fibers
- Toilet Tank and seat covers
- Umbrellas
- Upholstery made of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethyiene, polyolefins, polyptopylene, rayon, spandex, vinyl, wool
- Vacuum cleaner bags and filters
- Vinyl paper-wallpaper for non-food contact surfaces
- Woman's hosiery
- Woman's intimate apparel

DIRECTIONS FOR USE

Approved commercial appliances used in homes, offices, automobiles and institutions e.g., schools, hospitals, daycare centers, churches, correctional facilities

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles and face shield) and gloves when using this product. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry. Clean surfaces prior to application.

For Pump Spray Application: Dilute 8 ounces of BIOPROTECT 500 per gallon of water (2 oz. per quart; 1oz. per pint). Using pump sprayer, spray entire area 4"-6"s from the surface making sure the surface is completely covered. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth of sponge. If spotting occurs, wipe with moist cloth or sponge. Test for staining and color-fastness of fabrics and carpets by treating and drying a small, concealed area prior to application. BIOPROTECT 500 treats approximately 200 square feet per diluted gallon

of water. When treating coarser substrates, more BIOPROTECT 500 may be required due to absorption. A fan may be used to assist in drying carpet.
For Commercial Spray Application: For commercial application equipment (i.e. carpet/upholstery steamers, rotary jet extraction cleaners, and pressure sprayers) dilute 8 ounces of BIOPROTECT 500 per gallon of water (2oz. per quart; 1oz. per pint); mix well. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test for staining and color-fastness of fabrics and carpets by treating and drying a small, concealed area prior to application. . BIOPROTECT 500 treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates, more BIOPROTECT 500 may be required due to absorption. Dry carpet areas and surfaces before re-entry and dry articles before use. A fan may be used to assist in drying carpet.
For Dipping/Soaking Application: Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough BIOPROTECT 500 solution to completely submerge item. Dilute 8 ounces of BIOPROTECT 500 per gallon of water (2oz. per quart; 1oz. per pint); mix well. Completely submerge item in solution for 3 minutes. Remove item and dry. Test for staining and color-fastness of fabrics by treating and drying a small, concealed area prior to application. Do not reuse solution after dipping/soaking.

The substrate can be dried at room temperature or at temperatures to a maximum of 160°C (320°F), for example in a clothes dryer. Remove excess liquid before attempting to dry in a clothes dryer. If necessary, reapply BIOPROTECT 500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

Approved commercial applications in homes, offices, automobiles, and institutions e.g., schools, hospitals, day care centers, banks, churches, correctional facilities

The active ingredient in BIOPROTECT 500 is effective against odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew) and algae as a static agent. BIOPROTECT 500 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

- Air Filters for furnaces, air-conditioners, air purification devices, automobiles, recirculating air handling systems.
- Air filters/materials
- Aquarium filter material
- Bed sheets, blankets, and bedspreads
- Buffer pads (abrasive and polishing)
- Carpets and draperies
- Cellulose sponges
- Exterior walls (such as stone, concrete, brick)
- Fiberfill for upholstery, sleeping bags, apparel, where the fiber is cotton, natural down, nylon, polyester, rayon, or wool
- Fiberglass duct board
- Fire hose fabric
- Humidifier belts
- Mattress pads and ticking
- Men's underwear and outerwear
- Non-woven polyester

- Outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos)
- Polyurethane and cellulose foam for household, industrial, and institutional sponges and mops
- Polyurethane and polyethylene foam, when covered
- Polyurethane foam for packaging and cushioning in non-food contact applications
- Polyurethane foam used as a growth medium for non-food crops and plants
- Pre-moistened towelettes and tissue wipes (these do not impart pesticidal properties)
- Sand bags, tents, tarpaulins, sails, and ropes
- Athletic and casual socks
- Shoe insoles
- Shower curtains
- Socks comprised of nylon, nylon/orlon, cotton/nylon, linen/Lycra, acrylic/polypropylene, nylon, Lycra, wood/silk/nylon/Lycra and wool/acrylic/nylon/Lyrca
- Throw rugs Toweling made of 100 percent cotton, 100 percent polyester, and blends of the two fibers
- Toilet Tank and seat covers
- Umbrellas
- Upholstery made of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethyiene, polyolefins, polyptopylene, rayon, spandex, vinyl, wool
- Vacuum cleaner bags and filters
- Vinyl paper-wallpaper for non-food contact surfaces
- Disposable wiping cloths that can be used for multiple purposes such as dusting or washing furniture, cars, walls, windows, floors, appliances, dishes, counter tops; the wiping cloths do not impart pesticide properties
- Women's hosiery
- Women's intimate apparel

DIRECTIONS FOR USE

For homeowner applications

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles or face shield) and gloves when using this product. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry. Clean surfaces prior to application.

Approved homeowner uses

The active ingredient in BIOPROTECT 500 is effective against odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae as a static agent. BIOPROTECT 500 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

	Pest controlled	Dilution Rate	Method of Application
Bedsheets, blankets,	Odor-causing bacteria,	8 oz / gallon 2 oz / quart	**DIP/SOAK:** Dilute BIOPROTECT 500 in water; mix well. Use appropriate sized

bedspreads, curtains, draperies (washable only), underwear, socks, intimate apparel, hosiery, throw rugs, toweling, toilet tank covers, shower curtains, shoe insoles, outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos). BIOPROTECT 500 can be applied to fabrics made of acetates, acrylics, cotton, fiberglass, linen, Lycra, nylon, orlon, polyester, polyethylene, polyolefins, polypropylene, rayon, silk, spandex, vinyl, and wool.	bacteria which cause staining and discoloration, and fungi (mold and mildew)	1 oz / pint	wash basin or tub for dipping/soaking the item you are treating. Use enough BIOPROTECT 500 solution to completely submerge item. Keep item in solution for 3 minutes. Remove item and wring excess liquid from treated item. For larger items (e.g. bedspreads, curtains, draperies), place in washing machine on spin cycle to aid in the removal of excess liquid. Test staining and color-fastness of fabric and carpets by treating and drying a small concealed area prior to application. Do not reuse solution after dipping/soaking. Dry treated articles before use. Substrates can be hang-dried at room temperature or at temperatures to a maximum of 160°C (320°F); (for example, in a clothes dryer). If necessary, reapply BIOPROTECT 500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return. **SPRAY:** Dilute BIOPROTECT 500 in water; mix well. Clean surface prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application. If necessary, reapply BIOPROTECT 500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**
Air filters and air filter material for:	Odor-causing bacteria,	8 oz / gallon 2 oz / quart	**SPRAY:** Dilute BIOPROTECT 500 in water; mix well. When treating filters,

• Furnaces, air conditioners • Air purification systems • Automobiles • Recirculating air handling systems • Vacuum cleaner filters • Aquariums	bacteria which cause staining and discoloration, fungi (mold and mildew), and algae	1 oz / pint	remove filter from the unit. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Apply and then let stand until dry. If necessary, reapply BIOPROTECT 500 every three months or when odor, staining and discoloration due to bacteria, mold stains, mildew stains, and algae stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**
Carpeting	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	**SPRAY:** Dilute BIOPROTECT 500 in water; mix well. Apply to clean carpet surface. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. For rotary jet extraction cleaners and carpet steamers, add the diluted BIOPROTECT 500 solution directly to the cleaning tank, then operate the equipment in accordance with manufacturer's instructions. Apply and then let stand until dry. Test staining and color-fastness of carpets by treating and drying a small concealed area prior to application. BIOPROTECT 500 treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates (e.g., wool carpeting), more BIOPROTECT 500 may be required due to absorption. Dry carpet areas and surfaces before re-entry. A fan may be used to assist in drying carpeting. Remove children and pets from treated area until completely dried. If necessary, reapply BIOPROTECT 500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**
Mattress pad and mattress ticking	Odor-causing bacteria,	8 oz / gallon 2 oz / quart	**SPRAY:** Dilute BIOPROTECT 500 in water; mix well. Clean surfaces prior to

and upholstery composed of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethylene, polyolefins, polypropylene, rayon, spandex, vinyl, wool; fiberfill to be used in upholstery, sleeping bags, apparel, where the fiber is cotton, natural down, nylon, rayon, or wool	bacteria which cause staining and discoloration, and fungi (mold and mildew)	1 oz / pint	application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application. When applying to mattress pads and ticking do not soak. Remove children and pets from treated area until completely dried. If necessary, reapply BIOPROTECT 500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**
Tents, tarpaulins, sails, ropes.	Odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae	8 oz / gallon 2 oz / quart 1 oz / pint	**SPRAY:** Dilute BIOPROTECT 500 in water; mix well. Clean surface prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application. If necessary, reapply BIOPROTECT 500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return. **DIP/SOAK:** Dilute BIOPROTECT 500 in water; mix well. Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough BIOPROTECT 500 solution to completely submerge item. Keep item in solution for 3 minutes. Remove item and wring excess liquid. Test staining and color-fastness of fabric and carpets by treating and drying a small concealed area

			prior to application. Do not reuse solution after dipping/soaking. Dry treated articles before use. Substrates can be hang-dried at room temperature or at temperatures to a maximum of 160°C (320°F); (for example, in a clothes dryer). If necessary, reapply BIOPROTECT 500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**
Roofing materials (such as shingles, roofing granules, wood shakes, felt, stone, synthetic overcoats) Exterior walls (such as stone, concrete, brick)	Odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae	8 oz / gallon 2 oz / quart 1 oz / pint	**SPRAY:** Dilute BIOPROTECT 500 in water; mix well. Make sure the roof or wall is clean prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 6"-12" from the surface, making sure the surface is completely covered. After applying the diluted solution of BIOPROTECT 500, let stand until dry. BIOPROTECT 500 treats approximately 200 square feet of roofing or wall per diluted gallon of water. If necessary, reapply BIOPROTECT 500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**
Buffer pads (polishing and abrasive), polyurethane for household sponges and mops, vacuum cleaner bags, umbrellas, casual shoes, athletic shoes	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	**SPRAY:** Dilute BIOPROTECT 500 in water; mix well. Clean surface prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. If necessary, reapply BIOPROTECT 500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**
Tubs, glazed tile, vanity tops,	Odor-causing bacteria,	8 oz / gallon 2 oz / quart	**SPRAY:** Dilute BIOPROTECT 500 in water; mix well. Using a trigger pump

shower curtains, shower stalls (areas), sinks, washable walls, wall paper for non-food contact, floors, window sills, cabinets, garbage cans, appliances, refrigerators (exterior), fiberglass, formica, glazed tiles, glazed porcelain, synthetic marble, plastic, vinyl	bacteria which cause staining and discoloration, and fungi (mold and mildew)	1 oz / pint	sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. If necessary, reapply BIOPROTECT 500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

MOLD, MILDEW, ODOR PROTECTOR AND INHIBITOR BIOPROTECT 500 is an antimicrobial agent effective against odor-causing bacteria.
BIOPROTECT 500 is an antimicrobial agent effective against bacteria which cause staining and discoloration.
BIOPROTECT 500 is an antimicrobial agent effective against fungi (mold and mildew).
BIOPROTECT 500 is an antimicrobial agent effective against algae.
BIOPROTECT 500, and antimicrobial agent, controls the source of odors on surfaces in the home, in the bathroom, in the kitchen. (Bacteriostatic, fungistatic (mold and mildew), algaestatic.
BIOPROTECT 500, and antimicrobial agent, inhibits smelly odors caused by mold and mildew that can grow even in the cleanest of homes.
BIOPROTECT 500, and antimicrobial agent, inhibits the growth of odor causing bacteria.
Effective on hard non-porous washable bathroom and kitchen surfaces and fixtures around the home.
Effective on modern hard non-porous washable surfaces like fiberglass, glazed porcelain, Formica®, stainless steel, synthetic marble.
Imparts microbiostatic properties.
Use on carpet and upholstery to inhibit odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew).
Unscented.
Use on carpet and upholstery to inhibit the growth of odor-causing bacteria.
Use on carpet and upholstery to inhibit the growth of bacteria which cause staining and discoloration.
Use on carpet and upholstery to inhibit the growth of fungi (mold and mildew).
Use on carpet and upholstery to inhibit the growth of odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.
Provides and invisible microbiostatic coating to inhibit the growth of odor-causing bacteria.
Provides and invisible microbiostatic coating to inhibit the growth of bacteria which cause staining and discoloration.

Provides and invisible microbiostatic coating to inhibit the growth of fungi (mold and mildew).
Provides and invisible microbiostatic coating to inhibit the growth of algae.
Provides and invisible microbiostatic coating to inhibit the growth of odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.
Prevents deterioration caused by bacteria and fungi (mold and mildew).
Inhibits deterioration caused by bacteria.
Resists development of microbial odors.
Resists development of stains and discoloration due to bacteria.
Resists development of stains due to fungi (mold and mildew).
Resists stains due to algae.
Resists development of microbial odors, stains and discoloration due to bacteria, fungi (mold and mildew), and algae.
Provides/creates an invisible barrier to inhibit the growth of odor-causing bacteria.
Provides/creates an invisible barrier to inhibit the growth of bacteria which cause staining and discoloration.
Provides/creates an invisible barrier to inhibit the growth of fungi (mold and mildew).
Provides/creates an invisible barrier to inhibit the growth of algae.
Provides/creates an invisible barrier to inhibit the growth of odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal.

Pesticide Storage: Store in original, tightly closed containers below 30°C (86°F) and above 0°C (32°F) in a secure area inaccessible to children and away from food or feed.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **[For homeowner use the statement will read:** "Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site."]

Container Handling: (containers intended for residential users) Nonrefillable/container. Do not reuse or refill the container. Securely wrap original container in several layers of newspaper and discard in trash or offer for recycling if available.

Container Handling: (containers intended for nonresidential users, larger than 5 gallons) Nonrefillable container. Do not reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Dispose of rinsate as pesticide waste. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.

XMicrobe

MICROBIOSTATIC AGENT *
A Silicone Quaternary Ammonium Salt

Active Ingredient: 3-(trimethoxysilyl) propyldimethyloctadecyl ammonium chloride	**5.0%**
Other Ingredients:	**95.0%**
TOTAL INGREDIENTS:	**100.0%**

KEEP OUT OF REACH OF CHILDREN

WARNING

EPA Reg. No. 87583-2 EPA EST. 74348-FL-001

NET CONTENTS: 2, 4, 8, 16, 20, 22, or 36 fluid oz.; 1, 5, 55, 150, or 300 gal.
Lot No. _____

FIRST AID
IF IN EYES: • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. • Call poison control center or doctor for treatment advice.
IF INHALED: • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
IF ON SKIN: • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
IF SWALLOWED: • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.

*A microbiostatic agent is an agent that inhibits the growth of odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.
This product does not protect users or others against food-borne or disease-causing bacteria.

PURESHIELD INC., 1445 Jupiter Park Drive, Suite 11, Jupiter, Florida 33458

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING: Causes substantial but temporary eye injury. Harmful if absorbed through skin or inhaled. Do not get in eyes. Avoid contact with skin and avoid breathing vapor.
Wear protective eyewear (goggles or face shield). Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

ENVIRONMENTAL HAZARDS

Commercial and industrial uses: This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

De-activation may be required during clean up if a spill occurs. De-activation of BIOPROTECT 500 can be achieved by the addition of anionic surfactant (such as soap, sulfonates, sulfates) in quantity equivalent to that of BIOPROTECT 500.

Homeowner use: This pesticide is toxic to fish. Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of pesticide.

DIRECTIONS FOR USE

Approved commercial and Industrial Applications

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles or face shield) and gloves when using this product. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry.

Prepare solution by simply adding BIOPROTECT 500 to water or other solvents (for example, alcohol and ketones) and stirring. BIOPROTECT 500 can be diluted by following:

Amount of Water	1 quart (32 fl. oz.)	0.5 gallon (64 fl.oz.)	1.0 gallon (128 fl. oz.)	5.0 gallons
BIOPROTECT 500	4 fluid ounces	8 fluid ounces	16 fluid ounces	80 fluid ounces

The solution can then be applied to organic or inorganic substrates by brushing, dipping, padding, soaking, spraying, fogging or by using foam finishing techniques.

Dry substrates at temperatures from ambient to a maximum of 160° C (320° F) to effect complete condensation of silanol groups and to remove water, solvents and/or traces of methanol from hydrolysis. Optimum application and drying conditions, such as time and temperature, should be determined for each application before use. If necessary, reapply BIOPROTECT 500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

BIOPROTECT 500 when used as a concrete additive is added directly concrete preparation. Use 6 fluid ounces BIOPROTECT 500 per cubic feet of concrete. Add to water before addition of concrete. Addition of BIOPROTECT 500 reduces deterioration of sewer pipes and manholes by inhibiting microbiologically induced corrosion.

BIOPROTECT 500 when used as an additive for paints and coatings is added directly during preparation of the paint or coating. Use 5 pounds of BIOPROTECT 500 per 100 pounds of paint or coating (or 1 pound BIOPROTECT 500 per 20 pounds paint/coating). The addition of the antimicrobial agent (BIOPROTECT 500) to paints at the point of manufacture preserves the paint in the can as well as the dried paint film. BIOPROTECT 500 inhabits the growth of odor causing bacteria, bacteria which causes staining and discoloration, fungi (mold and mildew), and algae on the surface of dried films and coatings.

Approved commercial and industrial applications

The active ingredient in BIOPROTECT 500 is effective against odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew) and algae as a static agent. BIOPROTECT 500 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

- Air Filters for furnaces, air-conditioners, air purification devices, automobiles, recirculating air handling systems.
- Air filters/materials
- Aquarium filter material
- Bed sheets, blankets, and bedspreads
- Buffer pads (abrasive and polishing)
- Carpets and draperies
- Cellulose sponges
- Concrete additive for sewer pipes, manholes and concrete sewer structures; not to be used in treatment of storm drains
- Concrete additive for repair and renewal of sewer pipes and manholes and concrete sewers structures; not to be used in treatment of storm drains
- Exterior walls (such as stone, concrete, brick)
- Fiberfill for upholstery, sleeping bags, apparel, where the fiber is cotton, natural down, nylon, polyester, rayon, or wool
- Fiberglass duct board
- Fire hose fabric
- Humidifier belts
- Mattress pads and ticking
- Men's underwear and outerwear
- Non-woven polyester

- Outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos)
- BIOPROTECT 500 can be used in paints and coatings as an in-can preservative for protection of paint film and coating film. Types of paints and coatings include: latex indoor/outdoor paints and stains, woodstains, architectural paints, lacquer and maintenance coatings, films, laminates and finishes including alkyd, urethane, enamel, epoxy, siloxaline, amino resins, textile coatings, extrusion, coatings, architectural coatings and overlays, anti-corrosion coatings, fire-resistant coatings, aliphatic coatings, vinylester and polyester coatings, gel coating, amino resins, resins used as additive mixes for cement, epoxy laminating resins, and blends and copolymers thereof;
- Polyurethane and cellulose foam for household, industrial, and institutional sponges and mops
- Polyurethane and polyethylene foam, when covered
- Polyurethane foam for packaging and cushioning in non-food contact applications
- Polyurethane foam used as a growth medium for non-food crops and plants
- Sand bags, tents, tarpaulins, sails, and ropes
- Athletic and casual socks
- Shoe insoles
- Shower curtains
- Socks comprised of nylon, nylon/orlon, cotton/nylon, linen/Lycra, acrylic/polypropylene, nylon, Lycra, wood/silk/nylon/Lycra and wool/acrylic/nylon/Lyrca
- Throw rugs Toweling made of 100 percent cotton, 100 percent polyester, and blends of the two fibers
- Toilet Tank and seat covers
- Umbrellas
- Upholstery made of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethyiene, polyolefins, polyptopylene, rayon, spandex, vinyl, wool
- Vacuum cleaner bags and filters
- Vinyl paper-wallpaper for non-food contact surfaces
- Woman's hosiery
- Woman's intimate apparel

DIRECTIONS FOR USE

Approved commercial appliances used in homes, offices, automobiles and institutions e.g., schools, hospitals, daycare centers, churches, correctional facilities

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles and face shield) and gloves when using this product. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry. Clean surfaces prior to application.

For Pump Spray Application: Dilute 8 ounces of BIOPROTECT 500 per gallon of water (2 oz. per quart; 1oz. per pint). Using pump sprayer, spray entire area 4"-6"s from the surface making sure the surface is completely covered. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth of sponge. If spotting occurs, wipe with moist cloth or sponge. Test for staining and color-fastness of fabrics and carpets by treating and drying a small, concealed area prior to application. BIOPROTECT 500 treats approximately 200 square feet per diluted gallon

of water. When treating coarser substrates, more BIOPROTECT 500 may be required due to absorption. A fan may be used to assist in drying carpet.
For Commercial Spray Application: For commercial application equipment (i.e. carpet/upholstery steamers, rotary jet extraction cleaners, and pressure sprayers) dilute 8 ounces of BIOPROTECT 500 per gallon of water (2oz. per quart; 1oz. per pint); mix well. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test for staining and color-fastness of fabrics and carpets by treating and drying a small, concealed area prior to application. . BIOPROTECT 500 treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates, more BIOPROTECT 500 may be required due to absorption. Dry carpet areas and surfaces before re-entry and dry articles before use. A fan may be used to assist in drying carpet.
For Dipping/Soaking Application: Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough BIOPROTECT 500 solution to completely submerge item. Dilute 8 ounces of BIOPROTECT 500 per gallon of water (2oz. per quart; 1oz. per pint); mix well. Completely submerge item in solution for 3 minutes. Remove item and dry. Test for staining and color-fastness of fabrics by treating and drying a small, concealed area prior to application. Do not reuse solution after dipping/soaking.

The substrate can be dried at room temperature or at temperatures to a maximum of 160°C (320°F), for example in a clothes dryer. Remove excess liquid before attempting to dry in a clothes dryer. If necessary, reapply BIOPROTECT 500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

Approved commercial applications in homes, offices, automobiles, and institutions e.g., schools, hospitals, day care centers, banks, churches, correctional facilities

The active ingredient in BIOPROTECT 500 is effective against odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew) and algae as a static agent. BIOPROTECT 500 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

- Air Filters for furnaces, air-conditioners, air purification devices, automobiles, recirculating air handling systems.
- Air filters/materials
- Aquarium filter material
- Bed sheets, blankets, and bedspreads
- Buffer pads (abrasive and polishing)
- Carpets and draperies
- Cellulose sponges
- Exterior walls (such as stone, concrete, brick)
- Fiberfill for upholstery, sleeping bags, apparel, where the fiber is cotton, natural down, nylon, polyester, rayon, or wool
- Fiberglass duct board
- Fire hose fabric
- Humidifier belts
- Mattress pads and ticking
- Men's underwear and outerwear
- Non-woven polyester

- Outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos)
- Polyurethane and cellulose foam for household, industrial, and institutional sponges and mops
- Polyurethane and polyethylene foam, when covered
- Polyurethane foam for packaging and cushioning in non-food contact applications
- Polyurethane foam used as a growth medium for non-food crops and plants
- Pre-moistened towelettes and tissue wipes (these do not impart pesticidal properties)
- Sand bags, tents, tarpaulins, sails, and ropes
- Athletic and casual socks
- Shoe insoles
- Shower curtains
- Socks comprised of nylon, nylon/orlon, cotton/nylon, linen/Lycra, acrylic/polypropylene, nylon, Lycra, wood/silk/nylon/Lycra and wool/acrylic/nylon/Lyrca
- Throw rugs Toweling made of 100 percent cotton, 100 percent polyester, and blends of the two fibers
- Toilet Tank and seat covers
- Umbrellas
- Upholstery made of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethyiene, polyolefins, polyptopylene, rayon, spandex, vinyl, wool
- Vacuum cleaner bags and filters
- Vinyl paper-wallpaper for non-food contact surfaces
- Disposable wiping cloths that can be used for multiple purposes such as dusting or washing furniture, cars, walls, windows, floors, appliances, dishes, counter tops; the wiping cloths do not impart pesticide properties
- Women's hosiery
- Women's intimate apparel

DIRECTIONS FOR USE

For homeowner applications

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles or face shield) and gloves when using this product. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry. Clean surfaces prior to application.

Approved homeowner uses

The active ingredient in BIOPROTECT 500 is effective against odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae as a static agent. BIOPROTECT 500 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

	Pest controlled	Dilution Rate	Method of Application
Bedsheets, blankets,	Odor-causing bacteria,	8 oz / gallon 2 oz / quart	**DIP/SOAK:** Dilute BIOPROTECT 500 in water; mix well. Use appropriate sized

bedspreads, curtains, draperies (washable only), underwear, socks, intimate apparel, hosiery, throw rugs, toweling, toilet tank covers, shower curtains, shoe insoles, outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos). BIOPROTECT 500 can be applied to fabrics made of acetates, acrylics, cotton, fiberglass, linen, Lycra, nylon, orlon, polyester, polyethylene, polyolefins, polypropylene, rayon, silk, spandex, vinyl, and wool.	bacteria which cause staining and discoloration, and fungi (mold and mildew)	1 oz / pint	wash basin or tub for dipping/soaking the item you are treating. Use enough BIOPROTECT 500 solution to completely submerge item. Keep item in solution for 3 minutes. Remove item and wring excess liquid from treated item. For larger items (e.g. bedspreads, curtains, draperies), place in washing machine on spin cycle to aid in the removal of excess liquid. Test staining and color-fastness of fabric and carpets by treating and drying a small concealed area prior to application. Do not reuse solution after dipping/soaking. Dry treated articles before use. Substrates can be hang-dried at room temperature or at temperatures to a maximum of 160°C (320°F); (for example, in a clothes dryer). If necessary, reapply BIOPROTECT 500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return. **SPRAY:** Dilute BIOPROTECT 500 in water; mix well. Clean surface prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application. If necessary, reapply BIOPROTECT 500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**
Air filters and air filter material for:	Odor-causing bacteria,	8 oz / gallon 2 oz / quart	**SPRAY:** Dilute BIOPROTECT 500 in water; mix well. When treating filters,

• Furnaces, air conditioners • Air purification systems • Automobiles • Recirculating air handling systems • Vacuum cleaner filters • Aquariums	bacteria which cause staining and discoloration, fungi (mold and mildew), and algae	1 oz / pint	remove filter from the unit. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Apply and then let stand until dry. If necessary, reapply BIOPROTECT 500 every three months or when odor, staining and discoloration due to bacteria, mold stains, mildew stains, and algae stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**
Carpeting	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	**SPRAY:** Dilute BIOPROTECT 500 in water; mix well. Apply to clean carpet surface. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. For rotary jet extraction cleaners and carpet steamers, add the diluted BIOPROTECT 500 solution directly to the cleaning tank, then operate the equipment in accordance with manufacturer's instructions. Apply and then let stand until dry. Test staining and color-fastness of carpets by treating and drying a small concealed area prior to application. BIOPROTECT 500 treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates (e.g., wool carpeting), more BIOPROTECT 500 may be required due to absorption. Dry carpet areas and surfaces before re-entry. A fan may be used to assist in drying carpeting. Remove children and pets from treated area until completely dried. If necessary, reapply BIOPROTECT 500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**
Mattress pad and mattress ticking	Odor-causing bacteria,	8 oz / gallon 2 oz / quart	**SPRAY:** Dilute BIOPROTECT 500 in water; mix well. Clean surfaces prior to

and upholstery composed of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethylene, polyolefins, polypropylene, rayon, spandex, vinyl, wool; fiberfill to be used in upholstery, sleeping bags, apparel, where the fiber is cotton, natural down, nylon, rayon, or wool	bacteria which cause staining and discoloration, and fungi (mold and mildew)	1 oz / pint	application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application. When applying to mattress pads and ticking do not soak. Remove children and pets from treated area until completely dried. If necessary, reapply BIOPROTECT 500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**
Tents, tarpaulins, sails, ropes.	Odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae	8 oz / gallon 2 oz / quart 1 oz / pint	**SPRAY:** Dilute BIOPROTECT 500 in water; mix well. Clean surface prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application. If necessary, reapply BIOPROTECT 500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return. **DIP/SOAK:** Dilute BIOPROTECT 500 in water; mix well. Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough BIOPROTECT 500 solution to completely submerge item. Keep item in solution for 3 minutes. Remove item and wring excess liquid. Test staining and color-fastness of fabric and carpets by treating and drying a small concealed area

			prior to application. Do not reuse solution after dipping/soaking. Dry treated articles before use. Substrates can be hang-dried at room temperature or at temperatures to a maximum of 160°C (320°F); (for example, in a clothes dryer). If necessary, reapply BIOPROTECT 500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**
Roofing materials (such as shingles, roofing granules, wood shakes, felt, stone, synthetic overcoats) Exterior walls (such as stone, concrete, brick)	Odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae	8 oz / gallon 2 oz / quart 1 oz / pint	**SPRAY:** Dilute BIOPROTECT 500 in water; mix well. Make sure the roof or wall is clean prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 6"-12" from the surface, making sure the surface is completely covered. After applying the diluted solution of BIOPROTECT 500, let stand until dry. BIOPROTECT 500 treats approximately 200 square feet of roofing or wall per diluted gallon of water. If necessary, reapply BIOPROTECT 500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**
Buffer pads (polishing and abrasive), polyurethane for household sponges and mops, vacuum cleaner bags, umbrellas, casual shoes, athletic shoes	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	**SPRAY:** Dilute BIOPROTECT 500 in water; mix well. Clean surface prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. If necessary, reapply BIOPROTECT 500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**
Tubs, glazed tile, vanity tops,	Odor-causing bacteria,	8 oz / gallon 2 oz / quart	**SPRAY:** Dilute BIOPROTECT 500 in water; mix well. Using a trigger pump

shower curtains, shower stalls (areas), sinks, washable walls, wall paper for non-food contact, floors, window sills, cabinets, garbage cans, appliances, refrigerators (exterior), fiberglass, formica, glazed tiles, glazed porcelain, synthetic marble, plastic, vinyl	bacteria which cause staining and discoloration, and fungi (mold and mildew)	1 oz / pint	sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. If necessary, reapply BIOPROTECT 500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

MOLD, MILDEW, ODOR PROTECTOR AND INHIBITOR BIOPROTECT 500 is an antimicrobial agent effective against odor-causing bacteria.
BIOPROTECT 500 is an antimicrobial agent effective against bacteria which cause staining and discoloration.
BIOPROTECT 500 is an antimicrobial agent effective against fungi (mold and mildew).
BIOPROTECT 500 is an antimicrobial agent effective against algae.
BIOPROTECT 500, and antimicrobial agent, controls the source of odors on surfaces in the home, in the bathroom, in the kitchen. (Bacteriostatic, fungistatic (mold and mildew), algaestatic.
BIOPROTECT 500, and antimicrobial agent, inhibits smelly odors caused by mold and mildew that can grow even in the cleanest of homes.
BIOPROTECT 500, and antimicrobial agent, inhibits the growth of odor causing bacteria.
Effective on hard non-porous washable bathroom and kitchen surfaces and fixtures around the home.
Effective on modern hard non-porous washable surfaces like fiberglass, glazed porcelain, Formica®, stainless steel, synthetic marble.
Imparts microbiostatic properties.
Use on carpet and upholstery to inhibit odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew).
Unscented.
Use on carpet and upholstery to inhibit the growth of odor-causing bacteria.
Use on carpet and upholstery to inhibit the growth of bacteria which cause staining and discoloration.
Use on carpet and upholstery to inhibit the growth of fungi (mold and mildew).
Use on carpet and upholstery to inhibit the growth of odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.
Provides and invisible microbiostatic coating to inhibit the growth of odor-causing bacteria.
Provides and invisible microbiostatic coating to inhibit the growth of bacteria which cause staining and discoloration.

Provides and invisible microbiostatic coating to inhibit the growth of fungi (mold and mildew).
Provides and invisible microbiostatic coating to inhibit the growth of algae.
Provides and invisible microbiostatic coating to inhibit the growth of odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.
Prevents deterioration caused by bacteria and fungi (mold and mildew).
Inhibits deterioration caused by bacteria.
Resists development of microbial odors.
Resists development of stains and discoloration due to bacteria.
Resists development of stains due to fungi (mold and mildew).
Resists stains due to algae.
Resists development of microbial odors, stains and discoloration due to bacteria, fungi (mold and mildew), and algae.
Provides/creates an invisible barrier to inhibit the growth of odor-causing bacteria.
Provides/creates an invisible barrier to inhibit the growth of bacteria which cause staining and discoloration.
Provides/creates an invisible barrier to inhibit the growth of fungi (mold and mildew).
Provides/creates an invisible barrier to inhibit the growth of algae.
Provides/creates an invisible barrier to inhibit the growth of odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal.

Pesticide Storage: Store in original, tightly closed containers below 30°C (86°F) and above 0°C (32°F) in a secure area inaccessible to children and away from food or feed.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **[For homeowner use the statement will read:** "Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site."]

Container Handling: (containers intended for residential users) Nonrefillable/container. Do not reuse or refill the container. Securely wrap original container in several layers of newspaper and discard in trash or offer for recycling if available.

Container Handling: (containers intended for nonresidential users, larger than 5 gallons) Nonrefillable container. Do not reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Dispose of rinsate as pesticide waste. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.

KRK Consulting LLC
5807 Churchill Way
Medina, OH 44256
Tel: 440-263-7305
E-mail: kevinkutcel@gmail.com

December 3, 2013

US EPA (NOTIF)
Office of Pesticide Programs
Room S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, VA 22202-4501

Subject: PR Notice 1998-10 Notification for ABN (EPA No. 87583-2)

Please accept the attached 3 copies of the revised label for Reg. No. 87583-2 with the alternate brand name "XMicrobe" per PR Notice 1998-10.

Attached is EPA Form 8570-1 regarding this notification as required in PR Notice 1998-10. This notification is consistent with the guidance in PR Notice 1998-10 and the requirements of EPA's regulations at 40 CFR 156.46, 156.140, 156.144, 156,146 and 156.156 and no other changes have been made to the labeling or the Confidential Statement of Formula for this product. I understand this it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if the amended label is not consistent with the requirements of PR Notice 98-10 and CFR 156.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Please note that KRK Consulting LLC is the authorized agent handling all correspondence for PureShield Inc. and therefore all responses should be directed to the contact information on the letterhead above.

Best Regards,

Kevin R. Kutcel,
Agent for PureShield Inc.

Please read instructions on reverse before completing form. Form Approved. OMB No. 2070-0060

Print Form

EPA

United States
Environmental Protection Agency
Washington, DC 20460

- [ ] Registration
- [ ] Amendment
- [x] Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number	2. EPA Product Manager	3. Proposed Classification
PureShield, Inc. / 87583-2	Velma Noble	[x] None [ ] Restricted
4. Company/Product (Name)	**PM#**	
PureShield, Inc. / Bio-Protect AM500	31	

5. Name and Address of Applicant *(Include ZIP Code)*

PureShield Inc.
1445 Jupiter Park, Suite 11
Jupiter, FL 33458

[x] *Check if this is a new address*

6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to:

EPA Reg. No. _____

Product Name _____

Section - II

- [ ] Amendment - Explain below.
- [ ] Resubmission in response to Agency letter dated _____
- [x] Notification - Explain below.
- [ ] Final printed labels in response to Agency letter dated _____
- [ ] "Me Too" Application.
- [ ] Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Please see cover letter for alternate brand name "XMicrobe."

Section - III

1. Material This Product Will Be Packaged In:

Child-Resistant Packaging	Unit Packaging	Water Soluble Packaging	2. Type of Container
[ ] Yes* [x] No	[ ] Yes [x] No	[ ] Yes [x] No	[ ] Metal [x] Plastic [ ] Glass [ ] Paper [ ] Other (Specify) _____
* *Certification must be submitted*	If "Yes" Unit Packaging wgt. / No. per container	If "Yes" Package wgt / No. per container	

3. Location of Net Contents Information	4. Size(s) Retail Container	5. Location of Label Directions
[x] Label [ ] Container	2, 4, 8, 16, 30, 32, 3602 1, 5, 55, 150, 300 gal	[x] On Label [ ] On Labeling accompanying product

6. Manner in Which Label is Affixed to Product [x] Lithograph / Paper glued / Stenciled [ ] Other _____

Section - IV

1. Contact Point *(Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)*

Name	Title	Telephone No. (Include Area Code)
Kevin Kutcel	Agent	440-263-7305

Certification

I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

6. Date Application Received (Stamped)

2. Signature	3. Title	4. Typed Name	5. Date
[signature]	Agent	Kevin R. Kutcel	12/3/2013

Material Sent for Data Extraction

Reg # 87583-2

Description: _____

☑ Material(s) Sent to Data Extraction Contractors:

- ☐ New Stamped Label Dated _____
- ☐ Notification Dated _____
- ☐ New CSF(s) Dated _____
- ☑ Other: Agency Letter

☑ Decision #: 47684

☐ Other Action/Comments: _____

_____

Attach this coversheet to the top of the material or jacket. It must be well organized and clipped together, NOT STAPLED. Then give the material with this coversheet to staff in the Information Services Center (Room S-4900).

Reviewer: E. Dieguez _____

Phone: 347-0199 Division: AD

Date: _____

Created February 3, 2011

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Kevin Kutcel
Agent for PureShield
5807 Churchill Way
Medina, Ohio 44256

APR 9 2013

Dear Mr. Kutcel:

We have recently revised the labels and found that the products, which have Registration Numbers 87583-2 and 87583-3 can be applied using a variety of application methods. However, several of the listed application methods do not contain directions on how to apply this product using the listed application methods. Specifically there are no directions on how to apply this product by padding, foam finishing and fogging.

You must add directions on how to apply this product using above application methods. Alternatively, you can remove one or more of those application methods from the label.

Revise labels either removing the application methods described above or adding appropriate directions on how to apply the product by that method. You must send revised labels to the Agency within 30 days from the date of this letter.

If you have any questions concerning this letter please contact Emilia Oiguenblik at (703) 347 0199 or Velma Noble at (703) 308-6233.

Sincerely,

Drusilla Copeland

for Velma Noble
Product Manager (31)
Regulatory Management Branch I
Antimicrobials Division (7510P)

CONCURRENCES							
SYMBOL							
SURNAME							
DATE							

Material Sent for Data Extraction

Reg # 87583-2

Description: _____

☑ Material(s) Sent to Data Extraction Contractors:

- ☐ New Stamped Label Dated _____
- ☑ Notification Dated _____
- ☐ New CSF(s) Dated _____
- ☐ Other: _____

☑ Decision #: 931639

☐ Other Action/Comments: _____

_____

Attach this coversheet to the top of the material or jacket. It must be well organized and clipped together, NOT STAPLED. Then give the material with this coversheet to staff in the Information Services Center (Room S-4900).

Reviewer: E. Ogren bl.h _____

Phone: 347-0199 Division: AD

Date: _____

Created February 3, 2011

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

MAR 21 2013

Kevin Kutcel, Agent for PureShield Inc.
KRK Consulting LLC
5807 Churchhill Way
Medina,OH 44256

SUBJECT: Bio-Protect AM 500
EPA Registration Number: 87583-2
Application Date: February 25, 2013
Receipt Date: February 27, 2013

Dear Mr. Kutcel:

This letter acknowledges receipt of the notification identified above submitted under provisions of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) as amended and PR Notice 98-10.

- The addition of a chart on page 2 of label which presents the same use directions already approved by EPA in narrative form per PR Notice 98-10.

Based on a review of the submitted information, this notification is acceptable. Your proposed change will be made part of the record for this file.

General Comments

Should you have any questions concerning this letter, please contact Emilia Oiguenblik at (703) 347-0109 or Velma Noble at (703) 308-6233.

Sincerely,

Velma Noble
Product Manager (31)
Regulatory Management Branch I
Antimicrobials Division (7510P)

	CONCURRENCES						
SYMBOL							
SURNAME							
DATE							

Bio-Protect AM500

MICROBIOSTATIC AGENT

A Silicone Quaternary Ammonium Salt

NOTIFICATION
Date Reviewed: 3/21/13
Reviewed By: DC

MICROBIOSTATIC AGENT *

A Silicone Quaternary Ammonium Salt

Active Ingredient: 3-(trimethoxysilyl) propyldimethyloctadecyl ammonium chloride..... 5.0%
Other Ingredients: 95.0%
TOTAL INGREDIENTS: 100.0%

KEEP OUT OF REACH OF CHILDREN

WARNING

EPA Reg. No. 87583-2 EPA EST. 74348-FL-001

NET CONTENTS: 2, 4, 8, 16, 20, 22, or 36 fluid oz.; 1, 5, 55, 150, or 300 gal.
Lot No. _____

FIRST AID
IF IN EYES: • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. • Call poison control center or doctor for treatment advice.
IF INHALED: • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
IF ON SKIN: • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
IF SWALLOWED: • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.

*A microbiostatic agent is an agent that inhibits the growth of odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.
This product does not protect users or others against food-borne or disease-causing bacteria.

PURESHIELD INC., 1445 Jupiter Park Drive, Suite 11, Jupiter, Florida 33458

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING: Causes substantial but temporary eye injury. Harmful if absorbed through skin or inhaled. Do not get in eyes. Avoid contact with skin and avoid breathing vapor.
Wear protective eyewear (goggles or face shield). Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

ENVIRONMENTAL HAZARDS

Commercial and industrial uses: This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

De-activation may be required during clean up if a spill occurs. De-activation of BIOPROTECT 500 can be achieved by the addition of anionic surfactant (such as soap, sulfonates, sulfates) in quantity equivalent to that of BIOPROTECT 500.

Homeowner use: This pesticide is toxic to fish. Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of pesticide.

DIRECTIONS FOR USE

Approved commercial and Industrial Applications

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles or face shield) and gloves when using this product. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry.

Prepare solution by simply adding BIOPROTECT 500 to water or other solvents (for example, alcohol and ketones) and stirring. BIOPROTECT 500 can be diluted by following:

Amount of Water	1 quart (32 fl. oz.)	0.5 gallon (64 fl.oz.)	1.0 gallon (128 fl. oz.)	5.0 gallons
BIOPROTECT 500	4 fluid ounces	8 fluid ounces	16 fluid ounces	80 fluid ounces

The solution can then be applied to organic or inorganic substrates by brushing, dipping, padding, soaking, spraying, fogging or by using foam finishing techniques.

Dry substrates at temperatures from ambient to a maximum of 160° C (320° F) to effect complete condensation of silanol groups and to remove water, solvents and/or traces of methanol from hydrolysis. Optimum application and drying conditions, such as time and temperature, should be determined for each application before use. If necessary, reapply BIOPROTECT 500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

BIOPROTECT 500 when used as a concrete additive is added directly concrete preparation. Use 6 fluid ounces BIOPROTECT 500 per cubic feet of concrete. Add to water before addition of concrete. Addition of BIOPROTECT 500 reduces deterioration of sewer pipes and manholes by inhibiting microbiologically induced corrosion.

BIOPROTECT 500 when used as an additive for paints and coatings is added directly during preparation of the paint or coating. Use 5 pounds of BIOPROTECT 500 per 100 pounds of paint or coating (or 1 pound BIOPROTECT 500 per 20 pounds paint/coating). The addition of the antimicrobial agent (BIOPROTECT 500) to paints at the point of manufacture preserves the paint in the can as well as the dried paint film. BIOPROTECT 500 inhabits the growth of odor causing bacteria, bacteria which causes staining and discoloration, fungi (mold and mildew), and algae on the surface of dried films and coatings.

Approved commercial and industrial applications

The active ingredient in BIOPROTECT 500 is effective against odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew) and algae as a static agent. BIOPROTECT 500 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

- Air Filters for furnaces, air-conditioners, air purification devices, automobiles, recirculating air handling systems.
- Air filters/materials
- Aquarium filter material
- Bed sheets, blankets, and bedspreads
- Buffer pads (abrasive and polishing)
- Carpets and draperies
- Cellulose sponges
- Concrete additive for sewer pipes, manholes and concrete sewer structures; not to be used in treatment of storm drains
- Concrete additive for repair and renewal of sewer pipes and manholes and concrete sewers structures; not to be used in treatment of storm drains
- Exterior walls (such as stone, concrete, brick)
- Fiberfill for upholstery, sleeping bags, apparel, where the fiber is cotton, natural down, nylon, polyester, rayon, or wool
- Fiberglass duct board
- Fire hose fabric
- Humidifier belts
- Mattress pads and ticking
- Men's underwear and outerwear
- Non-woven disposable diapers

- Non-woven polyester
- Outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos)
- BIOPROTECT 500 can be used in paints and coatings as an in-can preservative for protection of paint film and coating film. Types of paints and coatings include: latex indoor/outdoor paints and stains, woodstains, architectural paints, lacquer and maintenance coatings, films, laminates and finishes including alkyd, urethane, enamel, epoxy, siloxaline, amino resins, textile coatings, extrusion, coatings, architectural coatings and overlays, anti-corrosion coatings, fire-resistant coatings, aliphatic coatings, vinylester and polyester coatings, gel coating, amino resins, resins used as additive mixes for cement, epoxy laminating resins, and blends and copolymers thereof;
- Polyurethane and cellulose foam for household, industrial, and institutional sponges and mops
- Polyurethane and polyethylene foam, when covered
- Polyurethane foam for packaging and cushioning in non-food contact applications
- Polyurethane foam used as a growth medium for non-food crops and plants
- Pre-moistened towelettes and tissue wipes (these do not impart pesticidal properties)
- Roofing materials – defined as shingles, roofing granules, wood shakes, felt, stone and synthetic overcoats
- Sand bags, tents, tarpaulins, sails, and ropes
- Athletic and casual socks
- Shoe insoles
- Shower curtains
- Socks comprised of nylon, nylon/orlon, cotton/nylon, linen/Lycra, acrylic/polypropylene, nylon, Lycra, wood/silk/nylon/Lycra and wool/acrylic/nylon/Lyrca
- Throw rugs Toweling made of 100 percent cotton, 100 percent polyester, and blends of the two fibers
- Toilet Tank and seat covers
- Umbrellas
- Upholstery made of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethyiene, polyolefins, polyptopylene, rayon, spandex, vinyl, wool
- Vacuum cleaner bags and filters
- Vinyl paper-wallpaper for non-food contact surfaces
- Disposable wiping cloths that can be used for multiple purposes such as dusting or washing furniture, cars, walls, windows, floors, appliances, dishes, counter tops; the wiping cloths do not impart pesticide properties
- Woman's hosiery
- Woman's intimate apparel

DIRECTIONS FOR USE

Approved commercial appliances used in homes, offices, automobiles and institutions e.g., schools, hospitals, daycare centers, churches, correctional facilities

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles and face shield) and gloves when using this product. Dry

treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry. Clean surfaces prior to application.
For Pump Spray Application: Dilute 8 ounces of BIOPROTECT 500 per gallon of water (2 oz. per quart; 1oz. per pint). Using pump sprayer, spray entire area 4"-6"s from the surface making sure the surface is completely covered. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth of sponge. If spotting occurs, wipe with moist cloth or sponge. Test for staining and color-fastness of fabrics and carpets by treating and drying a small, concealed area prior to application. BIOPROTECT 500 treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates, more BIOPROTECT 500 may be required due to absorption. A fan may be used to assist in drying carpet.
For Commercial Spray Application: For commercial application equipment (i.e. carpet/upholstery steamers, rotary jet extraction cleaners, and pressure sprayers) dilute 8 ounces of BIOPROTECT 500 per gallon of water (2oz. per quart; 1oz. per pint); mix well. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test for staining and color-fastness of fabrics and carpets by treating and drying a small, concealed area prior to application. . BIOPROTECT 500 treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates, more BIOPROTECT 500 may be required due to absorption. Dry carpet areas and surfaces before re-entry and dry articles before use. A fan may be used to assist in drying carpet.
For Dipping/Soaking Application: Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough BIOPROTECT 500 solution to completely submerge item. Dilute 8 ounces of BIOPROTECT 500 per gallon of water (2oz. per quart; 1oz. per pint); mix well. Completely submerge item in solution for 3 minutes. Remove item and dry. Test for staining and color-fastness of fabrics by treating and drying a small, concealed area prior to application. Do not reuse solution after dipping/soaking.

The substrate can be dried at room temperature or at temperatures to a maximum of 160°C (320°F), for example in a clothes dryer. Remove excess liquid before attempting to dry in a clothes dryer. If necessary, reapply BIOPROTECT 500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

Approved commercial applications in homes, offices, automobiles, and institutions e.g., schools, hospitals, day care centers, banks, churches, correctional facilities

The active ingredient in BIOPROTECT 500 is effective against odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew) and algae as a static agent. BIOPROTECT 500 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

- Air Filters for furnaces, air-conditioners, air purification devices, automobiles, recirculating air handling systems.
- Air filters/materials
- Aquarium filter material
- Bed sheets, blankets, and bedspreads
- Buffer pads (abrasive and polishing)
- Carpets and draperies
- Cellulose sponges
- Exterior walls (such as stone, concrete, brick)

- Fiberfill for upholstery, sleeping bags, apparel, where the fiber is cotton, natural down, nylon, polyester, rayon, or wool
- Fiberglass duct board
- Fire hose fabric
- Humidifier belts
- Mattress pads and ticking
- Men's underwear and outerwear
- Non-woven polyester
- Outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos)
- Polyurethane and cellulose foam for household, industrial, and institutional sponges and mops
- Polyurethane and polyethylene foam, when covered
- Polyurethane foam for packaging and cushioning in non-food contact applications
- Polyurethane foam used as a growth medium for non-food crops and plants
- Sand bags, tents, tarpaulins, sails, and ropes
- Athletic and casual socks
- Shoe insoles
- Shower curtains
- Socks comprised of nylon, nylon/orlon, cotton/nylon, linen/Lycra, acrylic/polypropylene, nylon, Lycra, wood/silk/nylon/Lycra and wool/acrylic/nylon/Lyrca
- Throw rugs Toweling made of 100 percent cotton, 100 percent polyester, and blends of the two fibers
- Toilet Tank and seat covers
- Umbrellas
- Upholstery made of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethyiene, polyolefins, polyptopylene, rayon, spandex, vinyl, wool
- Vacuum cleaner bags and filters
- Vinyl paper-wallpaper for non-food contact surfaces
- Disposable wiping cloths that can be used for multiple purposes such as dusting or washing furniture, cars, walls, windows, floors, appliances, dishes, counter tops; the wiping cloths do not impart pesticide properties
- Women's hosiery
- Women's intimate apparel

DIRECTIONS FOR USE

For homeowner applications

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles or face shield) and gloves when using this product. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry. Clean surfaces prior to application.

Approved homeowner uses

The active ingredient in BIOPROTECT 500 is effective against odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae as a static agent. BIOPROTECT 500 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

	Pest controlled	Dilution Rate	Method of Application
Bedsheets, blankets, bedspreads, curtains, draperies (washable only), underwear, socks, intimate apparel, hosiery, throw rugs, toweling, toilet tank covers, shower curtains, shoe insoles, outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos). BIOPROTECT 500 can be applied to fabrics made of acetates, acrylics, cotton, fiberglass, linen, Lycra, nylon, orlon, polyester, polyethylene, polyolefins, polypropylene, rayon, silk, spandex, vinyl, and wool.	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	**DIP/SOAK:** Dilute BIOPROTECT 500 in water; mix well. Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough BIOPROTECT 500 solution to completely submerge item. Keep item in solution for 3 minutes. Remove item and wring excess liquid from treated item. For larger items (e.g. bedspreads, curtains, draperies), place in washing machine on spin cycle to aid in the removal of excess liquid. Test staining and color-fastness of fabric and carpets by treating and drying a small concealed area prior to application. Do not reuse solution after dipping/soaking. Dry treated articles before use. Substrates can be hang-dried at room temperature or at temperatures to a maximum of 160°C (320°F); (for example, in a clothes dryer). If necessary, reapply BIOPROTECT 500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return. **SPRAY:** Dilute BIOPROTECT 500 in water; mix well. Clean surface prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application. If necessary, reapply BIOPROTECT 500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

	Pest controlled	**Dilution Rate**	**Method of Application**
Air filters and air filter material for: • Furnaces, air conditioners • Air purification systems • Automobiles • Recirculating air handling systems • Vacuum cleaner filters • Aquariums	Odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae	8 oz / gallon 2 oz / quart 1 oz / pint	**SPRAY:** Dilute BIOPROTECT 500 in water; mix well. When treating filters, remove filter from the unit. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Apply and then let stand until dry. If necessary, reapply BIOPROTECT 500 every three months or when odor, staining and discoloration due to bacteria, mold stains, mildew stains, and algae stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**

Carpeting	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	**SPRAY:** Dilute BIOPROTECT 500 in water; mix well. Apply to clean carpet surface. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. For rotary jet extraction cleaners and carpet steamers, add the diluted BIOPROTECT 500 solution directly to the cleaning tank, then operate the equipment in accordance with manufacturer's instructions. Apply and then let stand until dry. Test staining and color-fastness of carpets by treating and drying a small concealed area prior to application. BIOPROTECT 500 treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates (e.g., wool carpeting), more BIOPROTECT 500 may be required due to absorption. Dry carpet areas and surfaces before re-entry. A fan may be used to assist in drying carpeting. Remove children and pets from treated area until completely dried. If necessary, reapply BIOPROTECT 500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**
Mattress pad and mattress ticking and upholstery composed of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethylene, polyolefins, polypropylene, rayon, spandex, vinyl, wool; fiberfill to be used in upholstery, sleeping bags, apparel, where	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	**SPRAY:** Dilute BIOPROTECT 500 in water; mix well. Clean surfaces prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application. When applying to mattress pads and ticking do not soak. Remove children and pets from treated area until completely dried. If necessary, reapply BIOPROTECT 500 every three

the fiber is cotton, natural down, nylon, rayon, or wool			months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**
Tents, tarpaulins, sails, ropes.	Odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae	8 oz / gallon 2 oz / quart 1 oz / pint	**SPRAY:** Dilute BIOPROTECT 500 in water; mix well. Clean surface prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application. If necessary, reapply BIOPROTECT 500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return. **DIP/SOAK:** Dilute BIOPROTECT 500 in water; mix well. Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough BIOPROTECT 500 solution to completely submerge item. Keep item in solution for 3 minutes. Remove item and wring excess liquid. Test staining and color-fastness of fabric and carpets by treating and drying a small concealed area prior to application. Do not reuse solution after dipping/soaking. Dry treated articles before use. Substrates can be hang-dried at room temperature or at temperatures to a maximum of 160°C (320°F); (for example, in a clothes dryer). If necessary, reapply BIOPROTECT 500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**
Roofing materials (such as shingles, roofing granules,	Odor-causing bacteria, bacteria	8 oz / gallon 2 oz / quart 1 oz / pint	**SPRAY:** Dilute BIOPROTECT 500 in water; mix well. Make sure the roof or wall is clean prior to application. Using a

wood shakes, felt, stone, synthetic overcoats) Exterior walls (such as stone, concrete, brick)	which cause staining and discoloration, fungi (mold and mildew), and algae		trigger pump sprayer or pressure sprayer, spray the entire surface area 6"-12" from the surface, making sure the surface is completely covered. After applying the diluted solution of BIOPROTECT 500, let stand until dry. BIOPROTECT 500 treats approximately 200 square feet of roofing or wall per diluted gallon of water. If necessary, reapply BIOPROTECT 500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**
Buffer pads (polishing and abrasive), polyurethane for household sponges and mops, vacuum cleaner bags, umbrellas, casual shoes, athletic shoes	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	**SPRAY:** Dilute BIOPROTECT 500 in water; mix well. Clean surface prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. If necessary, reapply BIOPROTECT 500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**
Tubs, glazed tile, vanity tops, shower curtains, shower stalls (areas), sinks, washable walls, wall paper for non-food contact, floors, window sills, cabinets, garbage cans, appliances, refrigerators (exterior), fiberglass, formica, glazed tiles, glazed	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	**SPRAY:** Dilute BIOPROTECT 500 in water; mix well. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. If necessary, reapply BIOPROTECT 500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

porcelain, synthetic marble, plastic, vinyl			

MOLD, MILDEW, ODOR PROTECTOR AND INHIBITOR BIOPROTECT 500 is an antimicrobial agent effective against odor-causing bacteria.
BIOPROTECT 500 is an antimicrobial agent effective against bacteria which cause staining and discoloration.
BIOPROTECT 500 is an antimicrobial agent effective against fungi (mold and mildew).
BIOPROTECT 500 is an antimicrobial agent effective against algae.
BIOPROTECT 500, and antimicrobial agent, controls the source of odors on surfaces in the home, in the bathroom, in the kitchen. (Bacteriostatic, fungistatic (mold and mildew), algaestatic.
BIOPROTECT 500, and antimicrobial agent, inhibits smelly odors caused by mold and mildew that can grow even in the cleanest of homes.
BIOPROTECT 500, and antimicrobial agent, inhibits the growth of odor causing bacteria.
Effective on hard non-porous washable bathroom and kitchen surfaces and fixtures around the home.
Effective on modern hard non-porous washable surfaces like fiberglass, glazed porcelain, Formica®, stainless steel, synthetic marble.
Imparts microbiostatic properties.
Use on carpet and upholstery to inhibit odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew).
Unscented.
Use on carpet and upholstery to inhibit the growth of odor-causing bacteria.
Use on carpet and upholstery to inhibit the growth of bacteria which cause staining and discoloration.
Use on carpet and upholstery to inhibit the growth of fungi (mold and mildew).
Use on carpet and upholstery to inhibit the growth of odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.
Provides and invisible microbiostatic coating to inhibit the growth of odor-causing bacteria.
Provides and invisible microbiostatic coating to inhibit the growth of bacteria which cause staining and discoloration.
Provides and invisible microbiostatic coating to inhibit the growth of fungi (mold and mildew).
Provides and invisible microbiostatic coating to inhibit the growth of algae.
Provides and invisible microbiostatic coating to inhibit the growth of odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.
Prevents deterioration caused by bacteria and fungi (mold and mildew).
Inhibits deterioration caused by bacteria.
Resists development of microbial odors.
Resists development of stains and discoloration due to bacteria.
Resists development of stains due to fungi (mold and mildew).
Resists stains due to algae.
Resists development of microbial odors, stains and discoloration due to bacteria, fungi (mold and mildew), and algae.
Provides/creates an invisible barrier to inhibit the growth of odor-causing bacteria.
Provides/creates an invisible barrier to inhibit the growth of bacteria which cause staining and discoloration.

Provides/creates an invisible barrier to inhibit the growth of fungi (mold and mildew).
Provides/creates an invisible barrier to inhibit the growth of algae.
Provides/creates an invisible barrier to inhibit the growth of odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal.

Pesticide Storage: Store in original, tightly closed containers below 30°C (86°F) and above 0°C (32°F) in a secure area inaccessible to children and away from food or feed.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **[For homeowner use the statement will read:** "Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site."]

Container Handling: (containers intended for residential users) Nonrefillable/container. Do not reuse or refill the container. Securely wrap original container in several layers of newspaper and discard in trash or offer for recycling if available.

Container Handling: (containers intended for nonresidential users, larger than 5 gallons) Nonrefillable container. Do not reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Dispose of rinsate as pesticide waste. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.

BIO-PROTECT 500

MICROBIOSTATIC AGENT *
A Silicone Quaternary Ammonium Salt

Active Ingredient: 3-(trimethoxysilyl) propyldimethyloctadecyl ammonium chloride	**5.0%**
Other Ingredients:	**95.0%**
TOTAL INGREDIENTS:	**100.0%**

KEEP OUT OF REACH OF CHILDREN

WARNING

EPA Reg. No. 87583-2 EPA EST. 74348-FL-001

NET CONTENTS: 2, 4, 8, 16, 20, 22, or 36 fluid oz.; 1, 5, 55, 150, or 300 gal.
Lot No. _____

FIRST AID
IF IN EYES: • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. • Call poison control center or doctor for treatment advice.
IF INHALED: • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
IF ON SKIN: • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
IF SWALLOWED: • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.

*A microbiostatic agent is an agent that inhibits the growth of odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.
This product does not protect users or others against food-borne or disease-causing bacteria.

PURESHIELD INC., 1445 Jupiter Park Drive, Suite 11, Jupiter, Florida 33458

KRK Consulting LLC

5807 Churchill Way
Medina, OH 44256
Tel: 440-263-7305
E-mail: kevinkutcel@gmail.com

February 25, 2013

Ms. Velma Noble – PM 31
US Environmental Protection Agency (NOTIF)
Office of Pesticide Programs
Room S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, VA 22202-4501

Subject: PR Notice 1998-10 Notification for Addition of Table in Use Directions (EPA No. 87583-2)

Dear Ms. Noble,

On October 30, 2012, I sent you a notification with the addition of a table on page 2 for Reg. No. 87583-2 per PR Notice 1998-10. You responded with a letter dated November 28, 2013 stating that the addition of the table on page 2 is acceptable, but changes indicated on your EPA letter dated September 7, 2010 had not been included on the label, so it could not be accepted. A copy of your letter is included with this notification.

Please find attached a highlighted label with the same changes of the table addition on page 2 and the strikeout of 2 sentences of the narrative use directions as allowed in PR Notice 1998-10. These minor changes makes the label much clearer to understand and does not change the dilution ratios of the product. In addition, the changes indicated in your September 7, 2010 letter are included in this label. Three (3) copies of the changed label are also included with this notification.

Attached is EPA Form 8570-1 regarding this notification as required in PR Notice 1998-10. This notification is consistent with the guidance in PR Notice 1998-10 and the requirements of EPA's regulations at 40 CFR 156.46, 156.140, 156.144, 156,146 and 156.156 and no other changes have been made to the labeling or the Confidential Statement of Formula for this product. I understand this it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if the amended label is not consistent with the requirements of PR Notice 98-10 and CFR 156.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Please note that KRK Consulting LLC is the authorized agent handling all correspondence for PureShield Inc. and therefore all responses should be directed to the contact information on the letterhead above.

Best Regards,

Kevin R. Kutcel,
Agent for PureShield Inc.

Please read instructions on reverse before completing form. Form Approved. OMB No. 2070-0060 [Print Form]

EPA — United States Environmental Protection Agency, Washington, DC 20460

[ ] Registration [ ] Amendment [X] Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number	2. EPA Product Manager	3. Proposed Classification
PureShield Inc. / 87583-2	Velma Noble	[X] None [ ] Restricted
4. Company/Product (Name)	**PM#**	
PureShield Inc. / Bio-Protect AM500	31	

5. Name and Address of Applicant *(Include ZIP Code)*

PureShield Inc.
1445 Jupiter Park Drive, #11
Jupiter, FL 33458

[X] *Check if this is a new address*

6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to:

EPA Reg. No. _____

Product Name _____

Section - II

[ ] Amendment - Explain below.
[ ] Resubmission in response to Agency letter dated _____
[X] Notification - Explain below.
[ ] Final printed labels in response to Agency letter dated _____
[ ] "Me Too" Application.
[ ] Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)
Notification of the addition of a chart on page 2 of label which presents the same use directions already approved by EPA in narrative form per PR Notice 98-10. Please see attached cover letter for additional information.

Section - III

1. Material This Product Will Be Packaged In:

Child-Resistant Packaging	Unit Packaging	Water Soluble Packaging	2. Type of Container
[ ] Yes* [X] No	[ ] Yes [X] No	[ ] Yes [X] No	[ ] Metal [X] Plastic [ ] Glass [ ] Paper [ ] Other (Specify) _____
* *Certification must be submitted*	If "Yes" Unit Packaging wgt. / No. per container	If "Yes" Package wgt / No. per container	

3. Location of Net Contents Information	4. Size(s) Retail Container	5. Location of Label Directions
[X] Label [ ] Container		[X] On Label [ ] On Labeling accompanying product

6. Manner in Which Label is Affixed to Product [X] Lithograph / Paper glued / Stenciled [ ] Other _____

Section - IV

1. Contact Point *(Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)*

Name	Title	Telephone No. (Include Area Code)
Kevin Kutcel	Consultant	440-263-7305

Certification

I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

6. Date Application Received (Stamped)

2. Signature	3. Title	5. Date
K Kutcel	Agent	2/25/2013
4. Typed Name		
Kevin Kutcel		

EPA Form 8570-1 (Rev. 6-94) Previous editions are obsolete. White - EPA File Copy (original) Yellow - Applicant Copy

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Kevin Kutcel, Agent for PureShield Inc.
KRK Consulting LLC
5807 Churchhill Way
Medina,OH 44256

NOV 28 2012

SUBJECT: Bio-Protect AM 500
EPA Registration Number: 87583-2
Application Date: October 31, 2012
Receipt Date: November 5, 2012

Dear Mr. Kutcel:

This letter acknowledges receipt of the notification identified above submitted under provisions of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) as amended and PR Notice 98-10.

- Propose the alternate brand name: "HealthinEx Plus".

Based on a review of the submitted information, this notification is unacceptable. Your proposed alternate brand name is false and misleading, because it implies that the product can or will prevent or control disease or offer health protection.

General Comments

Should you have any questions concerning this letter, please contact Emilia Oiguenblik at (703) 347-0109 or Velma Noble at (703) 308-6233.

Sincerely,

Velma Noble
Product Manager (31)
Regulatory Management Branch I
Antimicrobials Division (7510P)

	CONCURRENCES							
SYMBOL								
SURNAME								
DATE								

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Kevin Kutcel, Agent for PureShield Inc.
KRK Consulting LLC
5807 Churchhill Way
Medina,OH 44256

NOV 28 2012

SUBJECT: Bio-Protect AM 500
EPA Registration Number: 87583-2
Application Date: October 31, 2012
Receipt Date: November 5, 2012

Dear Mr. Kutcel:

This letter acknowledges receipt of the notification identified above submitted under provisions of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) as amended and PR Notice 98-10.

- The addition of a chart on page 2 of label which presents the same use directions already approved by EPA in narrative form per PR Notice 98-10.

Based on a review of the submitted information the proposed addition of chart is acceptable, but your label does not contain changes required as per EPA letter dated September 7, 2010, so the Agency cannot accept this notification until your label is updated.

General Comments

Should you have any questions concerning this letter, please contact Emilia Oiguenblik at (703) 347-0109 or Velma Noble at (703) 308-6233.

Sincerely,

Velma Noble
Product Manager (31)
Regulatory Management Branch I
Antimicrobials Division (7510P)

CONCURRENCES								
SYMBOL								
SURNAME								
DATE								

RISK ASSIGNMENT FORM
Antimicrobial Division/Regulatory Management Branch I

A	Completed by Product Manager

PRODUCT REVIEWER: Emilia	RMBI TEAM 31
Type of Action: Notification	EPA File Symbol/Reg No. 87583-2

Decision No. 471536	Submission No. 926349	Fee for Service Action Code:
FQPA Action Code: 332	Non-FQPA Action Code:	PRIA FEE AMOUNT:

	MONTH	DAY	YEAR
APPLICATION DATE	10	30	2012
EPA PIN DATE	11	5	2012
DATE PM RECEIVED FROM FRONT END			2012
DATE SENT TO SCIENCE			
DATE RECEIVED FROM SCIENCE			
DATE DUE TO PM	Dec	5	

Type of Data:	PSB Product Chemistry	PSB Acute Toxicology	PSB Efficacy	RASSB Environmental Fate	RASSB Ecological Effects	RASSB Chronic Toxicology	RASSB Exposure/ Residue

Notification - Give to Emilia

ATTACHMENTS: -LABELING ☐-CSF(S) ☐-DATA ☐-OTHERS

B	For Arctic Slope Contract Only	
	Contract No.: 0052	*ARCTIC SLOPE*/MANAGER
	Final Task: Signature _____	_____ (Total hrs)
C	Reviewer Comments:	

DATE FEE PAID:	RESPONSE CODE:	RESPONSE DATE:

BIO-PROTECT AM500

A Silicone Quaternary Ammonium Salt

MICROBIOSTATIC AGENT *
A Silicone Quaternary Ammonium Salt

Active Ingredient: 3-(trimethoxysilyl) propyldimethyloctadecyl ammonium chloride..... 5.0%
Other Ingredients: 95.0%
TOTAL
INGREDIENTS: 100.0%

KEEP OUT OF REACH OF CHILDREN

WARNING

EPA Reg. No. 87583-2 EPA EST. 74348-FL-001

NET CONTENTS: 2, 4, 8, 16, 20, 22, or 36 fluid oz.; 1, 5, 55, 150, or 300 gal.
Lot No. _____

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IF INHALED: • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
IF ON SKIN: • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
IF SWALLOWED: • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.

*A microbiostatic agent is an agent that inhibits the growth of odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae. This product does not protect users or others against food-borne or disease-causing bacteria.

PURESHIELD INC., 1445 Jupiter Park Drive, Suite 11, Jupiter, Florida 33458

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING: Causes substantial but temporary eye injury. Harmful if absorbed through skin or inhaled. Do not get in eyes. Avoid contact with skin and avoid breathing vapor.
Wear protective eyewear (goggles or face shield). Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

ENVIRONMENTAL HAZARDS

Commercial and industrial uses: This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge
Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

De-activation may be required during clean up if a spill occurs. De-activation of AM500 can be achieved by the addition of anionic surfactant (such as soap, sulfonates, sulfates) in quantity equivalent to that of AM500.

Homeowner use: This pesticide is toxic to fish. Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of pesticide.

DIRECTIONS FOR USE

Approved commercial and Industrial Applications

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles or face shield) and gloves when using this product. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry.

Prepare solution by simply adding AM500 to water or other solvents (for example, alcohol and ketones) and stirring. AM500 can be diluted by following:

Amount of Water	1 quart (32 fl. oz.)	0.5 gallon (64 fl.oz.)	1.0 gallon (128 fl. oz.)	5.0 gallons
AM 500	4 fluid ounces	8 fluid ounces	16 fluid ounces	80 fluid ounces

~~the adding 0.2 to 2 fluid ounces of AM500 per cup (3.2 to 32 fluid ounces of AM500 per gallon) of water or other solvents (for example, alcohol and ketones)~~
The solution can then be applied to organic or inorganic substrates by brushing, dipping, padding, soaking, spraying, fogging or by using foam finishing techniques. ~~to give a final treatment of 0.1 to 1.0 percent by weight active ingredient.~~

Dry substrates at temperatures from ambient to a maximum of 160° C (320° F) to effect complete condensation of silanol groups and to remove water, solvents and/or traces of methanol from hydrolysis. Optimum application and drying conditions, such as time and temperature, should be determined for each application before use. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

AM500 when used as a concrete additive is added directly concrete preparation. Use 6 fluid ounces AM500 per cubic feet of concrete. Add to water before addition of concrete. Addition of AM500 reduces deterioration of sewer pipes and manholes by inhibiting microbiologically induced corrosion.

AM500 when used as an additive for paints and coatings is added directly during preparation of the paint or coating. Use 5 pounds of AM500 per 100 pounds of paint or coating (or 1 pound AM500 per 20 pounds paint/coating). The addition of the antimicrobial agent (AM500) to paints at the point of manufacture preserves the paint in the can as well as the dried paint film. AM500 inhabits the growth of odor causing bacteria, bacteria which causes staining and discoloration, fungi (mold and mildew), and algae on the surface of dried films and coatings.

Approved commercial and industrial applications

The active ingredient in AM500 is effective against odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew) and algae as a static agent. AM500 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

- Air Filters for furnaces, air-conditioners, air purification devices, automobiles, recirculating air handling systems.
- Air filters/materials
- Aquarium filter material
- Bed sheets, blankets, and bedspreads
- Buffer pads (abrasive and polishing)
- Carpets and draperies
- Cellulose sponges
- Concrete additive for sewer pipes, manholes and concrete sewer structures; not to be used in treatment of storm drains
- Concrete additive for repair and renewal of sewer pipes and manholes and concrete sewers structures; not to be used in treatment of storm drains
- Exterior walls (such as stone, concrete, brick)
- Fiberfill for upholstery, sleeping bags, apparel, where the fiber is cotton, natural down, nylon, polyester, rayon, or wool
- Fiberglass duct board
- Fire hose fabric
- Humidifier belts
- Mattress pads and ticking
- Men's underwear and outerwear
- Non-woven disposable diapers

- Non-woven polyester
- Outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos)
- AM500 can be used in paints and coatings as an in-can preservative for protection of paint film and coating film. Types of paints and coatings include: latex indoor/outdoor paints and stains, woodstains, architectural paints, lacquer and maintenance coatings, films, laminates and finishes including alkyd, urethane, enamel, epoxy, siloxaline, amino resins, textile coatings, extrusion, coatings, architectural coatings and overlays, anti-corrosion coatings, fire-resistant coatings, aliphatic coatings, vinylester and polyester coatings, gel coating, amino resins, resins used as additive mixes for cement, epoxy laminating resins, and blends and copolymers thereof;
- Polyurethane and cellulose foam for household, industrial, and institutional sponges and mops
- Polyurethane and polyethylene foam, when covered
- Polyurethane foam for packaging and cushioning in non-food contact applications
- Polyurethane foam used as a growth medium for non-food crops and plants
- Pre-moistened towelettes and tissue wipes (these do not impart pesticidal properties)
- Roofing materials – defined as shingles, roofing granules, wood shakes, felt, stone and synthetic overcoats
- Sand bags, tents, tarpaulins, sails, and ropes
- Athletic and casual socks
- Shoe insoles
- Shower curtains
- Socks comprised of nylon, nylon/orlon, cotton/nylon, linen/Lycra, acrylic/polypropylene, nylon, Lycra, wood/silk/nylon/Lycra and wool/acrylic/nylon/Lyrca
- Throw rugs Toweling made of 100 percent cotton, 100 percent polyester, and blends of the two fibers
- Toilet Tank and seat covers
- Umbrellas
- Upholstery made of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethyiene, polyolefins, polyptopylene, rayon, spandex, vinyl, wool
- Vacuum cleaner bags and filters
- Vinyl paper-wallpaper for non-food contact surfaces
- Disposable wiping cloths that can be used for multiple purposes such as dusting or washing furniture, cars, walls, windows, floors, appliances, dishes, counter tops; the wiping cloths do not impart pesticide properties
- Woman's hosiery
- Woman's intimate apparel

DIRECTIONS FOR USE

Approved commercial appliances used in homes, offices, automobiles and institutions e.g., schools, hospitals, daycare centers, churches, correctional facilities

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles and face shield) and gloves when using this product. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry. Clean surfaces prior to application.

For Pump Spray Application: Dilute 8 ounces of AM500 per gallon of water (2 oz. per quart; 1oz. per pint). Using pump sprayer, spray entire area 4"-6"s from the surface making sure the surface is completely covered. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth of sponge. If spotting occurs, wipe with moist cloth or sponge. Test for staining and color-fastness of fabrics and carpets by treating and drying a small, concealed area prior to application. AM500 treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates, more AM500 may be required due to absorption. A fan may be used to assist in drying carpet.

For Commercial Spray Application: For commercial application equipment (i.e. carpet/upholstery steamers, rotary jet extraction cleaners, and pressure sprayers) dilute 8 ounces of AM500 per gallon of water (2oz. per quart; 1oz. per pint); mix well. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test for staining and color-fastness of fabrics and carpets by treating and drying a small, concealed area prior to application. . AM500 treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates, more AM500 may be required due to absorption. Dry carpet areas and surfaces before re-entry and dry articles before use. A fan may be used to assist in drying carpet.

For Dipping/Soaking Application: Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough AM500 solution to completely submerge item. Dilute 8 ounces of AM500 per gallon of water (2oz. per quart; 1oz. per pint); mix well. Completely submerge item in solution for 3 minutes. Remove item and dry. Test for staining and color-fastness of fabrics by treating and drying a small, concealed area prior to application. Do not reuse solution after dipping/soaking.

The substrate can be dried at room temperature or at temperatures to a maximum of 160°C (320°F), for example in a clothes dryer. Remove excess liquid before attempting to dry in a clothes dryer. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

Approved commercial applications in homes, offices, automobiles, and institutions e.g., schools, hospitals, day care centers, banks, churches, correctional facilities

The active ingredient in AM500 is effective against odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew) and algae as a static agent.
AM500 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

- Air Filters for furnaces, air-conditioners, air purification devices, automobiles, recirculating air handling systems.
- Air filters/materials
- Aquarium filter material
- Bed sheets, blankets, and bedspreads
- Buffer pads (abrasive and polishing)
- Carpets and draperies
- Cellulose sponges
- Concrete additive for sewer pipes, manholes and concrete sewer structures; not to be used in treatment of storm drains
- Concrete additive for repair and renewal of sewer pipes and manholes and concrete sewers structures; not to be used in treatment of storm drains
- Exterior walls (such as stone, concrete, brick)
- Fiberfill for upholstery, sleeping bags, apparel, where the fiber is cotton, natural down, nylon, polyester, rayon, or wool
- Fiberglass duct board
- Fire hose fabric
- Humidifier belts
- Mattress pads and ticking
- Men's underwear and outerwear
- Non-woven disposable diapers
- Non-woven polyester
- Outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos)
- AM500 can be used in paints and coatings as an in can preservative for protection of paint film and coating film. Types of paints and coatings include: latex indoor/outdoor paints and stains, woodstains, architectural paints, lacquer and maintenance coatings, films, laminates and finishes including alkyd, urethane, enamel, epoxy, siloxaline, amino resins, textile coatings, extrusion, coatings, architectural coatings and overlays, anti-corrosion coatings, fire-resistant coatings, aliphatic coatings, vinylester and polyester coatings, gel coating, amino resins, resins used as additive mixes for cement, epoxy laminating resins, and blends and copolymers thereof;
- Polyurethane and cellulose foam for household, industrial, and institutional sponges and mops
- Polyurethane and polyethylene foam, when covered
- Polyurethane foam for packaging and cushioning in non-food contact applications
- Polyurethane foam used as a growth medium for non-food crops and plants
- Pre-moistened towelettes and tissue wipes (these do not impart pesticidal properties)
- Roofing materials – defined as shingles, roofing granules, wood shakes, felt, stone and synthetic overcoats
- Sand bags, tents, tarpaulins, sails, and ropes
- Athletic and casual socks
- Shoe insoles
- Shower curtains
- Socks comprised of nylon, nylon/orlon, cotton/nylon, linen/Lycra, acrylic/polypropylene, nylon, Lycra, wood/silk/nylon/Lycra and wool/acrylic/nylon/Lyrca

- Throw rugs Toweling made of 100 percent cotton, 100 percent polyester, and blends of the two fibers
- Toilet Tank and seat covers
- Umbrellas
- Upholstery made of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethyiene, polyolefins, polyptopylene, rayon, spandex, vinyl, wool
- Vacuum cleaner bags and filters
- Vinyl paper-wallpaper for non-food contact surfaces
- Disposable wiping cloths that can be used for multiple purposes such as dusting or washing furniture, cars, walls, windows, floors, appliances, dishes, counter tops; the wiping cloths do not impart pesticide properties
- Women's hosiery
- Women's intimate apparel

DIRECTIONS FOR USE

For homeowner applications

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles or face shield) and gloves when using this product. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry. Clean surfaces prior to application.

Approved homeowner uses

The active ingredient in AM500 is effective against odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae as a static agent. AM500 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

	Pest controlled	Dilution Rate	Method of Application
Bedsheets, blankets, bedspreads, curtains, draperies (washable only), underwear, socks, intimate apparel, hosiery, throw rugs, toweling, toilet tank covers, shower curtains, shoe insoles,	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	**DIP/SOAK:** Dilute AM500 in water; mix well. Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough AM500 solution to completely submerge item. Keep item in solution for 3 minutes. Remove item and wring excess liquid from treated item. For larger items (e.g. bedspreads, curtains, draperies), place in washing machine on spin cycle to aid in the removal of excess liquid. Test staining and color-fastness of fabric and carpets by

outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos). AM500 can be applied to fabrics made of acetates, acrylics, cotton, fiberglass, linen, Lycra, nylon, orlon, polyester, polyethylene, polyolefins, polypropylene, rayon, silk, spandex, vinyl, and wool.			treating and drying a small concealed area prior to application. Do not reuse solution after dipping/soaking. Dry treated articles before use. Substrates can be hang-dried at room temperature or at temperatures to a maximum of 160°C (320°F); (for example, in a clothes dryer). If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return. **SPRAY:** Dilute AM500 in water; mix well. Clean surface prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**
Air filters and air filter material for: • Furnaces, air conditioners • Air purification systems • Automobiles • Recirculating air handling systems • Vacuum cleaner filters • Aquariums	Odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae	8 oz / gallon 2 oz / quart 1 oz / pint	**SPRAY:** Dilute AM500 in water; mix well. When treating filters, remove filter from the unit. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Apply and then let stand until dry. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, mildew stains, and algae stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**

Carpeting	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	**SPRAY:** Dilute AM500 in water; mix well. Apply to clean carpet surface. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. For rotary jet extraction cleaners and carpet steamers, add the diluted AM500 solution directly to the cleaning tank, then operate the equipment in accordance with manufacturer's instructions. Apply and then let stand until dry. Test staining and color-fastness of carpets by treating and drying a small concealed area prior to application. AM500 treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates (e.g., wool carpeting), more AM500 may be required due to absorption. Dry carpet areas and surfaces before re-entry. A fan may be used to assist in drying carpeting. Remove children and pets from treated area until completely dried. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**
Mattress pad and mattress ticking and upholstery composed of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethylene, polyolefins, polypropylene, rayon, spandex, vinyl, wool; fiberfill to be used in upholstery, sleeping bags,	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	**SPRAY:** Dilute AM500 in water; mix well. Clean surfaces prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application. When applying to mattress pads and ticking do not soak. Remove children and pets from treated area until completely dried. If necessary, reapply

apparel, where the fiber is cotton, natural down, nylon, rayon, or wool			AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**
Tents, tarpaulins, sails, ropes.	Odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae	8 oz / gallon 2 oz / quart 1 oz / pint	**SPRAY:** Dilute AM500 in water; mix well. Clean surface prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return. **DIP/SOAK:** Dilute AM500 in water; mix well. Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough AM500 solution to completely submerge item. Keep item in solution for 3 minutes. Remove item and wring excess liquid. Test staining and color-fastness of fabric and carpets by treating and drying a small concealed area prior to application. Do not reuse solution after dipping/soaking. Dry treated articles before use. Substrates can be hang-dried at room temperature or at temperatures to a maximum of 160°C (320°F); (for example, in a clothes dryer). If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**
Roofing materials	Odor-causing	8 oz / gallon	**SPRAY:** Dilute AM500 in water; mix

(such as shingles, roofing granules, wood shakes, felt, stone, synthetic overcoats) Exterior walls (such as stone, concrete, brick)	bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae	2 oz / quart 1 oz / pint	well. Make sure the roof or wall is clean prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 6"-12" from the surface, making sure the surface is completely covered. After applying the diluted solution of AM500, let stand until dry. AM500 treats approximately 200 square feet of roofing or wall per diluted gallon of water. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**
Buffer pads (polishing and abrasive), polyurethane for household sponges and mops, vacuum cleaner bags, umbrellas, casual shoes, athletic shoes	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	**SPRAY:** Dilute AM500 in water; mix well. Clean surface prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**
Tubs, glazed tile, vanity tops, shower curtains, shower stalls (areas), sinks, washable walls, wall paper for non-food contact, floors, window sills, cabinets, garbage cans, appliances, refrigerators (exterior), fiberglass, formica, glazed	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	**SPRAY:** Dilute AM500 in water; mix well. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

tiles, glazed porcelain, synthetic marble, plastic, vinyl			

MOLD, MILDEW, ODOR PROTECTOR AND INHIBITOR AM500 is an antimicrobial agent effective against odor-causing bacteria.
AM500 is an antimicrobial agent effective against bacteria which cause staining and discoloration.
AM500 is an antimicrobial agent effective against fungi (mold and mildew).
AM500 is an antimicrobial agent effective against algae.
AM500, and antimicrobial agent, controls the source of odors on surfaces in the home, in the bathroom, in the kitchen. (Bacteriostatic, fungistatic (mold and mildew), algaestatic.
AM500, and antimicrobial agent, inhibits smelly odors caused by mold and mildew that can grow even in the cleanest of homes.
AM500, and antimicrobial agent, inhibits the growth of odor causing bacteria.
Effective on hard non-porous washable bathroom and kitchen surfaces and fixtures around the home.
Effective on modern hard non-porous washable surfaces like fiberglass, glazed porcelain, Formica®, stainless steel, synthetic marble.
Imparts microbiostatic properties.
Use on carpet and upholstery to inhibit odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew).
Unscented.
Use on carpet and upholstery to inhibit the growth of odor-causing bacteria.
Use on carpet and upholstery to inhibit the growth of bacteria which cause staining and discoloration.
Use on carpet and upholstery to inhibit the growth of fungi (mold and mildew).
Use on carpet and upholstery to inhibit the growth of odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.
Provides and invisible microbiostatic coating to inhibit the growth of odor-causing bacteria.
Provides and invisible microbiostatic coating to inhibit the growth of bacteria which cause staining and discoloration.
Provides and invisible microbiostatic coating to inhibit the growth of fungi (mold and mildew).
Provides and invisible microbiostatic coating to inhibit the growth of algae.
Provides and invisible microbiostatic coating to inhibit the growth of odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.
Prevents deterioration caused by bacteria and fungi (mold and mildew).
Inhibits deterioration caused by bacteria.
Resists development of microbial odors.
Resists development of stains and discoloration due to bacteria.
Resists development of stains due to fungi (mold and mildew).
Resists stains due to algae.
Resists development of microbial odors, stains and discoloration due to bacteria, fungi (mold and mildew), and algae.

Provides/creates an invisible barrier to inhibit the growth of odor-causing bacteria.
Provides/creates an invisible barrier to inhibit the growth of bacteria which cause staining and discoloration.
Provides/creates an invisible barrier to inhibit the growth of fungi (mold and mildew).
Provides/creates an invisible barrier to inhibit the growth of algae.
Provides/creates an invisible barrier to inhibit the growth of odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal.

Pesticide Storage: Store in original, tightly closed containers below 30°C (86°F) and above 0°C (32°F) in a secure area inaccessible to children and away from food or feed.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **[For homeowner use the statement will read:** "Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site."]

Container Disposal: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incinerate, or, if allowed by state and local authorities, dispose of by burning. If burned, stay out of smoke. **[For homeowners use statement will read:** "Container Disposal: Securely wrap original container in several layers of newspaper and discard in trash."]

RISK ASSIGNMENT FORM
Antimicrobial Division/Regulatory Management Branch I

A	Completed by Product Manager	
PRODUCT REVIEWER: Emilia		RMBI TEAM 31
Type of Action: Notification		EPA File Symbol/Reg No. 87583-2
Decision No. 471558	Submission No. 926351	Fee for Service Action Code:
FQPA Action Code: 337	Non-FQPA Action Code:	PRIA FEE AMOUNT:

	MONTH	DAY	YEAR
APPLICATION DATE	10	31	2012
EPA PIN DATE	11	5	2012
DATE PM RECEIVED FROM FRONT END			2012
DATE SENT TO SCIENCE			
DATE RECEIVED FROM SCIENCE			
DATE DUE TO PM	Dec.	5	

Type of Data:	PSB Product Chemistry	PSB Acute Toxicology	PSB Efficacy	RASSB Environmental Fate	RASSB Ecological Effects	RASSB Chronic Toxicology	RASSB Exposure/ Residue

Notification - Give to Emilia

ATTACHMENTS: -LABELING e-CSF(S) e-DATA e-OTHERS

B	For Arctic Slope Contract Only	
	Contract No.: 0052	*ARCTIC SLOPE*/MANAGER
	Final Task: Signature _____	_____ (Total hrs)
C	Reviewer Comments:	

DATE FEE PAID:	RESPONSE CODE:	RESPONSE DATE:

HealthinEx Plus

MICROBIOSTATIC AGENT ·
A Silicone Quaternary Ammonium Salt

Active Ingredient: 3-(trimethoxysilyl) propyldimethyloctadecyl ammonium chloride..... 5.0%
Other Ingredients: 95.0%
TOTAL
INGREDIENTS: 100.0%

KEEP OUT OF REACH OF CHILDREN

WARNING

EPA Reg. No. 87583-2 EPA EST. 74348-FL-001

NET CONTENTS: 2, 4, 8, 16, 20, 22, or 36 fluid oz.; 1, 5, 55, 150, or 300 gal.
Lot No. _____

FIRST AID
IF IN EYES: • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. • Call poison control center or doctor for treatment advice.
IF INHALED: • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
IF ON SKIN: • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
IF SWALLOWED: • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.

*A microbiostatic agent is an agent that inhibits the growth of odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.
This product does not protect users or others against food-borne or disease-causing bacteria.

PURESHIELD INC., 1445 Jupiter Park Drive, Suite 11, Jupiter, Florida 33458

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING: Causes substantial but temporary eye injury. Harmful if absorbed through skin or inhaled. Do not get in eyes. Avoid contact with skin and avoid breathing vapor.
Wear protective eyewear (goggles or face shield). Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

ENVIRONMENTAL HAZARDS

Commercial and industrial uses: This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge
Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

De-activation may be required during clean up if a spill occurs. De-activation of AM500 can be achieved by the addition of anionic surfactant (such as soap, sulfonates, sulfates) in quantity equivalent to that of AM500.

Homeowner use: This pesticide is toxic to fish. Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of pesticide.

DIRECTIONS FOR USE

Approved commercial and Industrial Applications

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles or face shield) and gloves when using this product. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry.

Prepare solution by simply adding AM500 to water or other solvents (for example, alcohol and ketones) and stirring. AM500 can be diluted by following:

Amount of Water	1 quart (32 fl. oz.)	0.5 gallon (64 fl.oz.)	1.0 gallon (128 fl. oz.)	5.0 gallons
AM 500	4 fluid ounces	8 fluid ounces	16 fluid ounces	80 fluid ounces

The solution can then be applied to organic or inorganic substrates by brushing, dipping, padding, soaking, spraying, fogging or by using foam finishing techniques.

Dry substrates at temperatures from ambient to a maximum of 160° C (320° F) to effect complete condensation of silanol groups and to remove water, solvents and/or traces of methanol from hydrolysis. Optimum application and drying conditions, such as time and temperature, should be determined for each application before use. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

AM500 when used as a concrete additive is added directly concrete preparation. Use 6 fluid ounces AM500 per cubic feet of concrete. Add to water before addition of concrete. Addition of AM500 reduces deterioration of sewer pipes and manholes by inhibiting microbiologically induced corrosion.

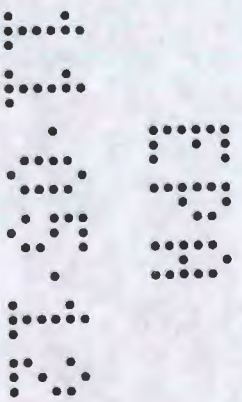
AM500 when used as an additive for paints and coatings is added directly during preparation of the paint or coating. Use 5 pounds of AM500 per 100 pounds of paint or coating (or 1 pound AM500 per 20 pounds paint/coating). The addition of the antimicrobial agent (AM500) to paints at the point of manufacture preserves the paint in the can as well as the dried paint film. AM500 inhabits the growth of odor causing bacteria, bacteria which causes staining and discoloration, fungi (mold and mildew), and algae on the surface of dried films and coatings.

Approved commercial and industrial applications

The active ingredient in AM500 is effective against odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew) and algae as a static agent. AM500 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

- Air Filters for furnaces, air-conditioners, air purification devices, automobiles, recirculating air handling systems.
- Air filters/materials
- Aquarium filter material
- Bed sheets, blankets, and bedspreads
- Buffer pads (abrasive and polishing)
- Carpets and draperies
- Cellulose sponges
- Concrete additive for sewer pipes, manholes and concrete sewer structures; not to be used in treatment of storm drains
- Concrete additive for repair and renewal of sewer pipes and manholes and concrete sewers structures; not to be used in treatment of storm drains
- Exterior walls (such as stone, concrete, brick)
- Fiberfill for upholstery, sleeping bags, apparel, where the fiber is cotton, natural down, nylon, polyester, rayon, or wool
- Fiberglass duct board
- Fire hose fabric
- Humidifier belts
- Mattress pads and ticking
- Men's underwear and outerwear
- Non-woven disposable diapers

- Non-woven polyester
- Outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos)
- AM500 can be used in paints and coatings as an in-can preservative for protection of paint film and coating film. Types of paints and coatings include: latex indoor/outdoor paints and stains, woodstains, architectural paints, lacquer and maintenance coatings, films, laminates and finishes including alkyd, urethane, enamel, epoxy, siloxaline, amino resins, textile coatings, extrusion, coatings, architectural coatings and overlays, anti-corrosion coatings, fire-resistant coatings, aliphatic coatings, vinylester and polyester coatings, gel coating, amino resins, resins used as additive mixes for cement, epoxy laminating resins, and blends and copolymers thereof;
- Polyurethane and cellulose foam for household, industrial, and institutional sponges and mops
- Polyurethane and polyethylene foam, when covered
- Polyurethane foam for packaging and cushioning in non-food contact applications
- Polyurethane foam used as a growth medium for non-food crops and plants
- Pre-moistened towelettes and tissue wipes (these do not impart pesticidal properties)
- Roofing materials – defined as shingles, roofing granules, wood shakes, felt, stone and synthetic overcoats
- Sand bags, tents, tarpaulins, sails, and ropes
- Athletic and casual socks
- Shoe insoles
- Shower curtains
- Socks comprised of nylon, nylon/orlon, cotton/nylon, linen/Lycra, acrylic/polypropylene, nylon, Lycra, wood/silk/nylon/Lycra and wool/acrylic/nylon/Lyrca
- Throw rugs Toweling made of 100 percent cotton, 100 percent polyester, and blends of the two fibers
- Toilet Tank and seat covers
- Umbrellas
- Upholstery made of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethyiene, polyolefins, polyptopylene, rayon, spandex, vinyl, wool
- Vacuum cleaner bags and filters
- Vinyl paper-wallpaper for non-food contact surfaces
- Disposable wiping cloths that can be used for multiple purposes such as dusting or washing furniture, cars, walls, windows, floors, appliances, dishes, counter tops; the wiping cloths do not impart pesticide properties
- Woman's hosiery
- Woman's intimate apparel



DIRECTIONS FOR USE

Approved commercial appliances used in homes, offices, automobiles and institutions e.g., schools, hospitals, daycare centers, churches, correctional facilities

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles and face shield) and gloves when using this product. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry. Clean surfaces prior to application.

For Pump Spray Application: Dilute 8 ounces of AM500 per gallon of water (2 oz. per quart; 1oz. per pint). Using pump sprayer, spray entire area 4"-6"s from the surface making sure the surface is completely covered. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth of sponge. If spotting occurs, wipe with moist cloth or sponge. Test for staining and color-fastness of fabrics and carpets by treating and drying a small, concealed area prior to application. AM500 treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates, more AM500 may be required due to absorption. A fan may be used to assist in drying carpet.

For Commercial Spray Application: For commercial application equipment (i.e. carpet/upholstery steamers, rotary jet extraction cleaners, and pressure sprayers) dilute 8 ounces of AM500 per gallon of water (2oz. per quart; 1oz. per pint); mix well. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test for staining and color-fastness of fabrics and carpets by treating and drying a small, concealed area prior to application. . AM500 treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates, more AM500 may be required due to absorption. Dry carpet areas and surfaces before re-entry and dry articles before use. A fan may be used to assist in drying carpet.

For Dipping/Soaking Application: Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough AM500 solution to completely submerge item. Dilute 8 ounces of AM500 per gallon of water (2oz. per quart; 1oz. per pint); mix well. Completely submerge item in solution for 3 minutes. Remove item and dry. Test for staining and color-fastness of fabrics by treating and drying a small, concealed area prior to application. Do not reuse solution after dipping/soaking.

The substrate can be dried at room temperature or at temperatures to a maximum of 160˚C (320˚F), for example in a clothes dryer. Remove excess liquid before attempting to dry in a clothes dryer. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

Approved commercial applications in homes, offices, automobiles, and institutions e.g., schools, hospitals, day care centers, banks, churches, correctional facilities

The active ingredient in AM500 is effective against odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew) and algae as a static agent. AM500 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

- Air Filters for furnaces, air-conditioners, air purification devices, automobiles, recirculating air handling systems.
- Air filters/materials
- Aquarium filter material
- Bed sheets, blankets, and bedspreads
- Buffer pads (abrasive and polishing)
- Carpets and draperies
- Cellulose sponges
- Concrete additive for sewer pipes, manholes and concrete sewer structures; not to be used in treatment of storm drains
- Concrete additive for repair and renewal of sewer pipes and manholes and concrete sewers structures; not to be used in treatment of storm drains
- Exterior walls (such as stone, concrete, brick)
- Fiberfill for upholstery, sleeping bags, apparel, where the fiber is cotton, natural down, nylon, polyester, rayon, or wool
- Fiberglass duct board
- Fire hose fabric
- Humidifier belts
- Mattress pads and ticking
- Men's underwear and outerwear
- Non-woven disposable diapers
- Non-woven polyester
- Outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos)
- AM500 can be used in paints and coatings as an in can preservative for protection of paint film and coating film. Types of paints and coatings include: latex indoor/outdoor paints and stains, woodstains, architectural paints, lacquer and maintenance coatings, films, laminates and finishes including alkyd, urethane, enamel, epoxy, siloxaline, amino resins, textile coatings, extrusion, coatings, architectural coatings and overlays, anti-corrosion coatings, fire-resistant coatings, aliphatic coatings, vinylester and polyester coatings, gel coating, amino resins, resins used as additive mixes for cement, epoxy laminating resins, and blends and copolymers thereof;
- Polyurethane and cellulose foam for household, industrial, and institutional sponges and mops
- Polyurethane and polyethylene foam, when covered
- Polyurethane foam for packaging and cushioning in non-food contact applications
- Polyurethane foam used as a growth medium for non-food crops and plants
- Pre-moistened towelettes and tissue wipes (these do not impart pesticidal properties)
- Roofing materials – defined as shingles, roofing granules, wood shakes, felt, stone and synthetic overcoats
- Sand bags, tents, tarpaulins, sails, and ropes
- Athletic and casual socks
- Shoe insoles
- Shower curtains
- Socks comprised of nylon, nylon/orlon, cotton/nylon, linen/Lycra, acrylic/polypropylene, nylon, Lycra, wood/silk/nylon/Lycra and wool/acrylic/nylon/Lyrca

- Throw rugs Toweling made of 100 percent cotton, 100 percent polyester, and blends of the two fibers
- Toilet Tank and seat covers
- Umbrellas
- Upholstery made of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethyiene, polyolefins, polyptopylene, rayon, spandex, vinyl, wool
- Vacuum cleaner bags and filters
- Vinyl paper-wallpaper for non-food contact surfaces
- Disposable wiping cloths that can be used for multiple purposes such as dusting or washing furniture, cars, walls, windows, floors, appliances, dishes, counter tops; the wiping cloths do not impart pesticide properties
- Women's hosiery
- Women's intimate apparel

DIRECTIONS FOR USE

For homeowner applications

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles or face shield) and gloves when using this product. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry. Clean surfaces prior to application.

Approved homeowner uses

The active ingredient in AM500 is effective against odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae as a static agent. AM500 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

	Pest controlled	Dilution Rate	Method of Application
Bedsheets, blankets, bedspreads, curtains, draperies (washable only), underwear, socks, intimate apparel, hosiery, throw rugs, toweling, toilet tank covers, shower curtains, shoe insoles,	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	**DIP/SOAK:** Dilute AM500 in water; mix well. Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough AM500 solution to completely submerge item. Keep item in solution for 3 minutes. Remove item and wring excess liquid from treated item. For larger items (e.g. bedspreads, curtains, draperies), place in washing machine on spin cycle to aid in the removal of excess liquid. Test staining and color-fastness of fabric and carpets by

outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos). AM500 can be applied to fabrics made of acetates, acrylics, cotton, fiberglass, linen, Lycra, nylon, orlon, polyester, polyethylene, polyolefins, polypropylene, rayon, silk, spandex, vinyl, and wool.			treating and drying a small concealed area prior to application. Do not reuse solution after dipping/soaking. Dry treated articles before use. Substrates can be hang-dried at room temperature or at temperatures to a maximum of 160°C (320°F); (for example, in a clothes dryer). If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return. **SPRAY:** Dilute AM500 in water; mix well. Clean surface prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**
Air filters and air filter material for: • Furnaces, air conditioners • Air purification systems • Automobiles • Recirculating air handling systems • Vacuum cleaner filters • Aquariums	Odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae	8 oz / gallon 2 oz / quart 1 oz / pint	**SPRAY:** Dilute AM500 in water; mix well. When treating filters, remove filter from the unit. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Apply and then let stand until dry. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, mildew stains, and algae stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**

Carpeting	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	**SPRAY:** Dilute AM500 in water; mix well. Apply to clean carpet surface. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. For rotary jet extraction cleaners and carpet steamers, add the diluted AM500 solution directly to the cleaning tank, then operate the equipment in accordance with manufacturer's instructions. Apply and then let stand until dry. Test staining and color-fastness of carpets by treating and drying a small concealed area prior to application. AM500 treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates (e.g., wool carpeting), more AM500 may be required due to absorption. Dry carpet areas and surfaces before re-entry. A fan may be used to assist in drying carpeting. Remove children and pets from treated area until completely dried. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**
Mattress pad and mattress ticking and upholstery composed of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethylene, polyolefins, polypropylene, rayon, spandex, vinyl, wool; fiberfill to be used in upholstery, sleeping bags,	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	**SPRAY:** Dilute AM500 in water; mix well. Clean surfaces prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application. When applying to mattress pads and ticking do not soak. Remove children and pets from treated area until completely dried. If necessary, reapply

apparel, where the fiber is cotton, natural down, nylon, rayon, or wool			AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**
Tents, tarpaulins, sails, ropes.	Odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae	8 oz / gallon 2 oz / quart 1 oz / pint	**SPRAY:** Dilute AM500 in water; mix well. Clean surface prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return. **DIP/SOAK:** Dilute AM500 in water; mix well. Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough AM500 solution to completely submerge item. Keep item in solution for 3 minutes. Remove item and wring excess liquid. Test staining and color-fastness of fabric and carpets by treating and drying a small concealed area prior to application. Do not reuse solution after dipping/soaking. Dry treated articles before use. Substrates can be hang-dried at room temperature or at temperatures to a maximum of 160°C (320°F); (for example, in a clothes dryer). If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**
Roofing materials	Odor-causing	8 oz / gallon	**SPRAY:** Dilute AM500 in water; mix

(such as shingles, roofing granules, wood shakes, felt, stone, synthetic overcoats) Exterior walls (such as stone, concrete, brick)	bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae	2 oz / quart 1 oz / pint	well. Make sure the roof or wall is clean prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 6"-12" from the surface, making sure the surface is completely covered. After applying the diluted solution of AM500, let stand until dry. AM500 treats approximately 200 square feet of roofing or wall per diluted gallon of water. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**
Buffer pads (polishing and abrasive), polyurethane for household sponges and mops, vacuum cleaner bags, umbrellas, casual shoes, athletic shoes	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	**SPRAY:** Dilute AM500 in water; mix well. Clean surface prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**
Tubs, glazed tile, vanity tops, shower curtains, shower stalls (areas), sinks, washable walls, wall paper for non-food contact, floors, window sills, cabinets, garbage cans, appliances, refrigerators (exterior), fiberglass, formica, glazed	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	**SPRAY:** Dilute AM500 in water; mix well. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

tiles, glazed porcelain, synthetic marble, plastic, vinyl			

MOLD, MILDEW, ODOR PROTECTOR AND INHIBITOR AM500 is an antimicrobial agent effective against odor-causing bacteria.
AM500 is an antimicrobial agent effective against bacteria which cause staining and discoloration.
AM500 is an antimicrobial agent effective against fungi (mold and mildew).
AM500 is an antimicrobial agent effective against algae.
AM500, and antimicrobial agent, controls the source of odors on surfaces in the home, in the bathroom, in the kitchen. (Bacteriostatic, fungistatic (mold and mildew), algaestatic.
AM500, and antimicrobial agent, inhibits smelly odors caused by mold and mildew that can grow even in the cleanest of homes.
AM500, and antimicrobial agent, inhibits the growth of odor causing bacteria.
Effective on hard non-porous washable bathroom and kitchen surfaces and fixtures around the home.
Effective on modern hard non-porous washable surfaces like fiberglass, glazed porcelain, Formica®, stainless steel, synthetic marble.
Imparts microbiostatic properties.
Use on carpet and upholstery to inhibit odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew).
Unscented.
Use on carpet and upholstery to inhibit the growth of odor-causing bacteria.
Use on carpet and upholstery to inhibit the growth of bacteria which cause staining and discoloration.
Use on carpet and upholstery to inhibit the growth of fungi (mold and mildew).
Use on carpet and upholstery to inhibit the growth of odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.
Provides and invisible microbiostatic coating to inhibit the growth of odor-causing bacteria.
Provides and invisible microbiostatic coating to inhibit the growth of bacteria which cause staining and discoloration.
Provides and invisible microbiostatic coating to inhibit the growth of fungi (mold and mildew).
Provides and invisible microbiostatic coating to inhibit the growth of algae.
Provides and invisible microbiostatic coating to inhibit the growth of odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.
Prevents deterioration caused by bacteria and fungi (mold and mildew).
Inhibits deterioration caused by bacteria.
Resists development of microbial odors.
Resists development of stains and discoloration due to bacteria.
Resists development of stains due to fungi (mold and mildew).
Resists stains due to algae.
Resists development of microbial odors, stains and discoloration due to bacteria, fungi (mold and mildew), and algae.

Provides/creates an invisible barrier to inhibit the growth of odor-causing bacteria.
Provides/creates an invisible barrier to inhibit the growth of bacteria which cause staining and discoloration.
Provides/creates an invisible barrier to inhibit the growth of fungi (mold and mildew).
Provides/creates an invisible barrier to inhibit the growth of algae.
Provides/creates an invisible barrier to inhibit the growth of odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal.

Pesticide Storage: Store in original, tightly closed containers below 30°C (86°F) and above 0°C (32°F) in a secure area inaccessible to children and away from food or feed.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **[For homeowner use the statement will read:** "Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site."]

Container Disposal: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incinerate, or, if allowed by state and local authorities, dispose of by burning. If burned, stay out of smoke. **[For homeowners use statement will read:** "Container Disposal: Securely wrap original container in several layers of newspaper and discard in trash."]

KRK Consulting LLC
5807 Churchill Way
Medina, OH 44256
Tel: 440-263-7305
E-mail: kevinkutcel@gmail.com

October 31, 2012

US EPA (NOTIF)
Office of Pesticide Programs
Room S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, VA 22202-4501

Subject: PR Notice 1998-10 Notification for ABN (EPA No. 87583-2)

Please accept the attached 3 copies of the revised label for Reg. No. 87583-2 with the alternate brand name "HealthinEx Plus" per PR Notice 1998-10.

Attached is EPA Form 8570-1 regarding this notification as required in PR Notice 1998-10. This notification is consistent with the guidance in PR Notice 1998-10 and the requirements of EPA's regulations at 40 CFR 156.46, 156.140, 156.144, 156,146 and 156.156 and no other changes have been made to the labeling or the Confidential Statement of Formula for this product. I understand this it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if the amended label is not consistent with the requirements of PR Notice 98-10 and CFR 156.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Please note that KRK Consulting LLC is the authorized agent handling all correspondence for PureShield Inc. and therefore all responses should be directed to the contact information on the letterhead above.

Best Regards,

Kevin R. Kutcel,
Agent for PureShield Inc.

Please read instructions on reverse before completing form. Form Approved. OMB No. 2070-0060

Print Form

EPA

United States
Environmental Protection Agency
Washington, DC 20460

- [ ] Registration
- [ ] Amendment
- [x] Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number	2. EPA Product Manager	3. Proposed Classification
PureShield Inc. / 87583-2	Velma Noble	[x] None [ ] Restricted
4. Company/Product (Name)	**PMS**	
PureShield Inc. / Bio-Protect AM500	31	

5. Name and Address of Applicant *(Include ZIP Code)*

PureShield Inc.
1445 Jupiter Park Drive, #11
Jupiter, FL 33458

[ ] *Check if this is a new address*

6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to:

EPA Reg. No. _____

Product Name _____

Section - II

- [ ] Amendment - Explain below.
- [ ] Resubmission in response to Agency letter dated _____
- [x] Notification - Explain below.
- [ ] Final printed labels in response to Agency letter dated _____
- [ ] "Me Too" Application.
- [ ] Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)
Please accept the alternate brand name for Reg. No. 87583-2 of "HealthinEx Plus" per PR Notice 98-10. Please see attached cover letter for required compliance statement regarding this PR Notice.

Section - III

1. Material This Product Will Be Packaged In:

Child-Resistant Packaging	Unit Packaging	Water Soluble Packaging	2. Type of Container
[ ] Yes* [x] No	[ ] Yes [x] No	[ ] Yes [x] No	[ ] Metal [x] Plastic [ ] Glass [ ] Paper [ ] Other (Specify) _____
* *Certification must be submitted*	If "Yes" Unit Packaging wgt. / No. per container	If "Yes" Package wgt / No. per container	

3. Location of Net Contents Information	4. Size(s) Retail Container	5. Location of Label Directions
[x] Label [ ] Container		[x] On Label [ ] On Labeling accompanying product

6. Manner in Which Label is Affixed to Product [x] Lithograph / Paper glued / Stenciled [ ] Other _____

Section - IV

1. Contact Point *(Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)*

Name	Title	Telephone No. (Include Area Code)
Kevin Kutcel	Agent	440-263-7305

Certification

I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

6. Date Application Received (Stamped)

2. Signature	3. Title	4. Typed Name	5. Date
Kevin Kutcel	Consultant	Kevin Kutcel	10/31/12

EPA Form 8570-1 (Rev. 8-94) Previous editions are obsolete. White - EPA File Copy (original) Yellow - Applicant Copy

KRK Consulting LLC

5807 Churchill Way
Medina, OH 44256
Tel: 440-263-7305
E-mail: kevinkutcel@gmail.com

October 30, 2012

US EPA (NOTIF)
Office of Pesticide Programs
Room S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, VA 22202-4501

Subject: PR Notice 1998-10 Notification for Addition of Table in Use Directions (EPA No. 87583-2)

Please accept the attached 3 copies of the revised label for Reg. No. 87583-2 with "notification of an addition of a table on page 2 of label" per PR Notice 1998-10. Attached is one copy of the proposed label in which the addition of a table clarifying the use directions already approved by the EPA in narrative form per PR Notice 1998-10. The one copy also shows the strikeout of 2 sentences of the narrative use directions as allowed in PR Notice 1998-10. Also enclosed are three (3) copies of the label with the changes made.

Attached is EPA Form 8570-1 regarding this notification as required in PR Notice 1998-10. This notification is consistent with the guidance in PR Notice 1998-10 and the requirements of EPA's regulations at 40 CFR 156.46, 156.140, 156.144, 156,146 and 156.156 and no other changes have been made to the labeling or the Confidential Statement of Formula for this product. I understand this it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if the amended label is not consistent with the requirements of PR Notice 98-10 and CFR 156.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Please note that KRK Consulting LLC is the authorized agent handling all correspondence for PureShield Inc. and therefore all responses should be directed to the contact information on the letterhead above.

Best Regards,

Kevin R. Kutcel,
Agent for PureShield Inc.

Please read instructions on reverse before completing. Form Approved. OMB No. 2070-0060

Print Form

United States Environmental Protection Agency Washington, DC 20460

EPA

- [ ] Registration
- [ ] Amendment
- [x] Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number	2. EPA Product Manager	3. Proposed Classification
PureShield Inc. / 87583-2	Velma Noble	[x] None [ ] Restricted
4. Company/Product (Name)	**PM#**	
PureShield Inc. / Bio-Protect AM500	31	

5. Name and Address of Applicant *(Include ZIP Code)*

PureShield Inc.
1445 Jupiter Park Drive, #11
Jupiter, FL 33458

[x] *Check if this is a new address*

6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to:

EPA Reg. No. _____

Product Name _____

Section - II

- [ ] Amendment - Explain below.
- [ ] Resubmission in response to Agency letter dated _____
- [x] Notification - Explain below.
- [ ] Final printed labels in response to Agency letter dated _____
- [ ] "Me Too" Application.
- [ ] Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Notification of the addition of a chart on page 2 of label which presents the same use directions already approved by EPA in narrative form per PR Notice 98-10. Please see attached cover letter for additional information.

Section - III

1. Material This Product Will Be Packaged In:

Child-Resistant Packaging	Unit Packaging	Water Soluble Packaging	2. Type of Container
[ ] Yes* [x] No	[ ] Yes [x] No	[ ] Yes [x] No	[ ] Metal [x] Plastic [ ] Glass [ ] Paper [ ] Other (Specify) _____
* *Certification must be submitted*	If "Yes" Unit Packaging wgt. / No. per container	If "Yes" Package wgt / No. per container	

3. Location of Net Contents Information	4. Size(s) Retail Container	5. Location of Label Directions
[x] Label [ ] Container		[x] On Label [ ] On Labeling accompanying product

6. Manner in Which Label is Affixed to Product

[x] Lithograph / Paper glued / Stenciled [ ] Other _____

Section - IV

1. Contact Point *(Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)*

Name	Title	Telephone No. (Include Area Code)
Kevin Kutcel	Consultant	440-263-7305

Certification

I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

2. Signature	3. Title	6. Date Application Received (Stamped)
	Consultant	
4. Typed Name	**5. Date**	
Kevin Kutcel	10/30/2012	

EPA Form 8570-1 (Rev. 8-94) Previous editions are obsolete. White - EPA File Copy (original) Yellow - Applicant Copy

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

EPA United States Environmental Protection Agency **Office of Pesticide Programs**

Kevin R. Kutcel,
Agent for PureShield Inc.
5807 Churchill Way,
Medina, OH 44256

MAY 17 2012

Subject:	Product Name:	Bio-Protect AM500
	EPA Reg. No.:	87583-2
	Notification Date:	April 12, 2012
	EPA Receipt Date:	April 18, 2012
	Decisions #:	463921

Dear Mr. Kutcel,

This letter acknowledges receipt of your multiple-notifications submitted under the provision of the Federal Insecticide, Fungicide and Rodenticide Act. (FIFRA) section 3(c)9 and PR Notice 98-10.

Proposed Notification:

- Additional of the indoor, nonfood site of "wood"

General Comments

Based on a review of the submitted materials, your application for pesticide notification for the product, "Bio-Protect AM500", is un-acceptable. The addition of "wood" to the product's label could be interpreted as a wood preservative use. Therefore, you must re-submit this package as a label amendment. If the package is re-submitted as label amendment, the Agency may consider "wood", as a new use. A copy of your notification has been placed in our records for future reference.

Should you have any questions or comments concerning this letter, please contact Velma Noble PM team 31 at (703) 308-6233 or Jamil Mixon at (703) 308-8032.

Sincerely,

Velma Noble,
Product Manager, Team 31
Regulatory Management Branch
Antimicrobials Division (7510P)

RISK ASSIGNMENT FORM
Antimicrobial Division/Regulatory Management Branch I

A	Completed by Product Manager

PRODUCT REVIEWER: Cletis	**RMB 1 TEAM 31**
Description of Action: Notification	**EPA File Symbol/Reg No 87583-2**
Decision No 463921	**Submission No.** / **Fee for Service Action Code: 332**
FQPA Action Code:	**Non-FQPA Action Code:** / **PRIA FEE AMOUNT:**

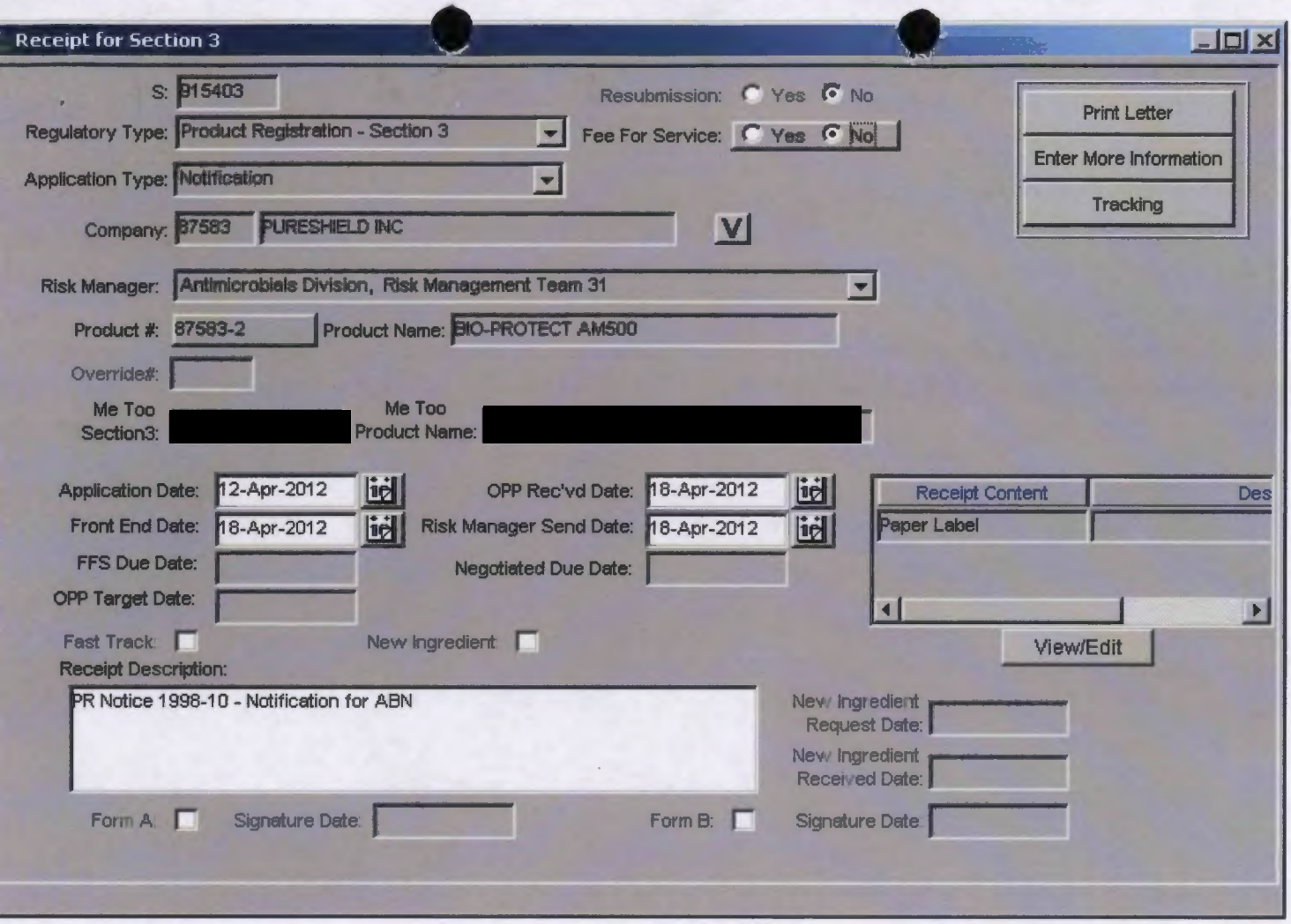
	DAY	MONTH	YEAR
APPLICATION DATE	12	04	2012
EPA PIN DATE	18	04	2012
DATE PM RECEIVED FROM FRONT END			
DATE SENT TO SCIENCE			
DATE RECEIVED FROM SCIENCE			
DATE DUE TO PM	10	05	

Type of Data:	PSB Product Chemistry	PSB Acute Toxicology	PSB Efficacy	RASSB Environmental Fate	RASSB Ecological Effects	RASSB Chronic Toxicology	RASSB Exposure/ Residue

FYI

B	**For Arctic Slope Contract Only**	
	Contract No.: 0052	***ARCTIC SLOPE*/MANAGER**
	Final Task: Signature _____	_____ (Total hrs)
C	**Reviewer Comments**:	

DATE FEE PAID:	**RESPONSE CODE:**	**RESPONSE DATE:**



Product ingredient source information may be entitled to confidential treatment

KRK Consulting LLC

5807 Churchill Way
Medina, OH 44256
Tel: 440-263-7305
E-mail: kevinkutcel@gmail.com

April 12, 2012

US EPA (NOTIF)
Office of Pesticide Programs
Room S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, VA 22202-4501

Subject: PR Notice 1998-10 Notification for ABN (EPA No. 87583-2)

Please accept the attached 3 copies of the revised label for Reg. No. 87583-2 with the addition of the indoor, nonfood site of "wood" added to the label as indicated by yellow highlight on the attached labels. Per PR Notice 98-10, the addition of this site does not require additional data; is within the use pattern category for this product; exposure is not increased; the US EPA does not prohibit the addition of nonfood sites for this product; within the scope of the label for the technical product; and the dosage, concentration, frequency and method of application are not changed.

Attached is EPA Form 8570-1 regarding this notification as required in PR Notice 1998-10. This notification is consistent with the guidance in PR Notice 1998-10 and the requirements of EPA's regulations at 40 CFR 156.46, 156.140, 156.144, 156,146 and 156.156 and no other changes have been made to the labeling or the Confidential Statement of Formula for this product. I understand this it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if the amended label is not consistent with the requirements of PR Notice 98-10 and CFR 156.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Please note that KRK Consulting LLC is the authorized agent handling all correspondence for PureShield Inc. and therefore all responses should be directed to the contact information on the letterhead above.

Best Regards,

Kevin R. Kutcel,
Agent for PureShield Inc.

Please read instructions on reverse before completing form. Form Approved. OMB No. 2070-0060 [Print Form]

EPA United States Environmental Protection Agency Washington, DC 20460

[ ] Registration [ ] Amendment [X] Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number	2. EPA Product Manager	3. Proposed Classification
PureShield Inc. / 87583-2	Velma Noble	[X] None [ ] Restricted
4. Company/Product (Name)	**PM#**	
PureShield Inc. / Bio-Protect AM500	31	

5. Name and Address of Applicant *(Include ZIP Code)*

PureShield Inc.
1445 Jupiter Park Drive, #11
Jupiter, FL 33458

[X] *Check if this is a new address*

6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to:

EPA Reg. No. _____

Product Name _____

Section - II

[ ] Amendment - Explain below.
[ ] Resubmission in response to Agency letter dated _____
[X] Notification - Explain below.
[ ] Final printed labels in response to Agency letter dated _____
[ ] "Me Too" Application.
[ ] Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Notification of an additional indoor, nonfood site per PR Notice 98-10. Please see attached cover letter for additional information.

Section - III

1. Material This Product Will Be Packaged In:

Child-Resistant Packaging	Unit Packaging	Water Soluble Packaging	2. Type of Container
[ ] Yes* [X] No	[ ] Yes [X] No	[ ] Yes [X] No	[ ] Metal [X] Plastic [ ] Glass [ ] Paper [ ] Other (Specify) _____
* *Certification must be submitted*	If "Yes" Unit Packaging wgt. / No. per container	If "Yes" Package wgt / No. per container	

3. Location of Net Contents Information	4. Size(s) Retail Container	5. Location of Label Directions
[X] Label [ ] Container		[X] On Label [ ] On Labeling accompanying product

6. Manner in Which Label is Affixed to Product [X] Lithograph [ ] Paper glued [ ] Stenciled [ ] Other _____

Section - IV

1. Contact Point *(Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)*

Name	Title	Telephone No. (Include Area Code)
Kevin Kutcel	Consultant	440-263-7305

Certification

I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

6. Date Application Received (Stamped)

2. Signature	3. Title
[signature]	Consultant
4. Typed Name	**5. Date**
Kevin Kutcel	4/12/2012

EPA Form 8570-1 (Rev. 8-94) Previous editions are obsolete. White - EPA File Copy (original) Yellow - Applicant Copy

BIO-PROTECT AM500

A Silicone Quaternary Ammonium Salt

MICROBIOSTATIC AGENT*
A Silicone Quaternary Ammonium Salt

Active Ingredient: 3-(trimethoxysilyl) propyldimethyloctadecyl ammonium chloride..... 5%
Other Ingredients: 95%
TOTAL
INGREDIENTS: 100%

KEEP OUT OF REACH OF CHILDREN

WARNING

EPA Reg. No. 87583-2 EPA EST. 74348-FL-001

NET CONTENTS: 2, 4, 8, 16, 20, 22, or 36 fluid oz.; 1, 5, 55, 150, or 300 gal.
Lot No. _____

FIRST AID
IF IN EYES: • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. • Call poison control center or doctor for treatment advice.
IF INHALED: • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
IF ON SKIN: • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
IF SWALLOWED: • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.

*A microbiostatic agent is an agent that inhibits the growth of odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.
This product does not protect users or others against food-borne or disease-causing bacteria.

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING: Causes substantial but temporary eye injury. Harmful if absorbed through skin or inhaled. Do not get in eyes. Avoid contact with skin and avoid breathing vapor.
Wear protective eyewear (goggles or face shield). Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

ENVIRONMENTAL HAZARDS

Commercial and industrial uses: This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

De-activation may be required during clean up if a spill occurs. De-activation of AM500 can be achieved by the addition of anionic surfactant (such as soap, sulfonates, sulfates) in quantity equivalent to that of AM500.

Homeowner use: This pesticide is toxic to fish. Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of pesticide.

DIRECTIONS FOR USE

Approved commercial and Industrial Applications

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles or face shield) and gloves when using this product. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry.

Prepare solution by simply adding AM500 to solvent and stirring. AM500 can also be diluted by adding 0.2 to 2 fluid ounces of AM500 per cup (3.2 to 32 fluid ounces of AM500 per gallon) of water or other solvents (for example, alcohol and ketones) and than applied to organic or inorganic substrates by brushing, dipping, padding, soaking, spraying, fogging or by using foam finishing techniques to give a final treatment of 0.1 to 1.0 percent by weight active ingredient.

Dry substrates at temperatures from ambient to a maximum of 160° C (320° F) to effect complete condensation of silanol groups and to remove water, solvents and/or traces of methanol from hydrolysis. Optimum application and drying conditions, such as time and temperature, should be determined for each application before use. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

AM500 when used as a concrete additive is added directly concrete preparation. Use 6 fluid ounces AM500 per cubic feet of concrete. Add to water before addition of concrete. Addition of AM500 reduces deterioration of sewer pipes and manholes by inhibiting microbiologically induced corrosion.

AM500 when used as an additive for paints and coatings is added directly during preparation of the paint or coating. Use 5 pounds of AM500 per 100 pounds of paint or coating (or 1 pound AM500 per 20 pounds paint/coating). The addition of the antimicrobial agent (AM500) to paints at the point of manufacture preserves the paint in the can as well as the dried paint film. AM500 inhabits the growth of odor causing bacteria, bacteria which causes staining and discoloration, fungi (mold and mildew), and algae on the surface of dried films and coatings.

Approved commercial and industrial applications

The active ingredient in AM500 is effective against odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew) and algae as a static agent. AM500 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

- Air Filters for furnaces, air-conditioners, air purification devices, automobiles, recirculating air handling systems.
- Air filters/materials
- Aquarium filter material
- Bed sheets, blankets, and bedspreads
- Buffer pads (abrasive and polishing)
- Carpets and draperies
- Cellulose sponges
- Concrete additive for sewer pipes, manholes and concrete sewer structures; not to be used in treatment of storm drains
- Concrete additive for repair and renewal of sewer pipes and manholes and concrete sewers structures; not to be used in treatment of storm drains
- Exterior walls (such as stone, concrete, brick)
- Fiberfill for upholstery, sleeping bags, apparel, where the fiber is cotton, natural down, nylon, polyester, rayon, or wool
- Fiberglass duct board
- Fire hose fabric
- Humidifier belts
- Mattress pads and ticking
- Men's underwear and outerwear
- Non-woven disposable diapers
- Non-woven polyester
- Outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos)
- AM500 can be used in paints and coatings as an in-can preservative for protection of paint film and coating film. Types of paints and coatings include: latex indoor/outdoor

paints and stains, woodstains, architectural paints, lacquer and maintenance coatings, films, laminates and finishes including alkyd, urethane, enamel, epoxy, siloxaline, amino resins, textile coatings, extrusion, coatings, architectural coatings and overlays, anti-corrosion coatings, fire-resistant coatings, aliphatic coatings, vinylester and polyester coatings, gel coating, amino resins, resins used as additive mixes for cement, epoxy laminating resins, and blends and copolymers thereof;

- Polyurethane and cellulose foam for household, industrial, and institutional sponges and mops
- Polyurethane and polyethylene foam, when covered
- Polyurethane foam for packaging and cushioning in non-food contact applications
- Polyurethane foam used as a growth medium for non-food crops and plants
- Pre-moistened towelettes and tissue wipes (these do not impart pesticidal properties)
- Roofing materials – defined as shingles, roofing granules, wood shakes, felt, stone and synthetic overcoats
- Sand bags, tents, tarpaulins, sails, and ropes
- Athletic and casual socks
- Shoe insoles
- Shower curtains
- Socks comprised of nylon, nylon/orlon, cotton/nylon, linen/Lycra, acrylic/polypropylene, nylon, Lycra, wood/silk/nylon/Lycra and wool/acrylic/nylon/Lyrca
- Throw rugs Toweling made of 100 percent cotton, 100 percent polyester, and blends of the two fibers
- Toilet Tank and seat covers
- Umbrellas
- Upholstery made of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethyiene, polyolefins, polyptopylene, rayon, spandex, vinyl, wool
- Vacuum cleaner bags and filters
- Vinyl paper-wallpaper for non-food contact surfaces
- Disposable wiping cloths that can be used for multiple purposes such as dusting or washing furniture, cars, walls, windows, floors, appliances, dishes, counter tops; the wiping cloths do not impart pesticide properties
- Woman's hosiery
- Woman's intimate apparel
- **Wood**

DIRECTIONS FOR USE

Approved commercial appliances used in homes, offices, automobiles and institutions e.g., schools, hospitals, daycare centers, churches, correctional facilities

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles and face shield) and gloves when using this product. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry. Clean surfaces prior to application.

For Pump Spray Application: Dilute 8 ounces of AM500 per gallon of water (2 oz. per quart; 1oz. per pint). Using pump sprayer, spray entire area 4"-6"s from the surface making sure the surface is completely covered. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth of sponge. If spotting occurs, wipe with moist cloth or sponge. Test for staining and color-fastness of fabrics and carpets by treating and drying a small, concealed area prior to application. AM500 treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates, more AM500 may be required due to absorption. A fan may be used to assist in drying carpet.

For Commercial Spray Application: For commercial application equipment (i.e. carpet/upholstery steamers, rotary jet extraction cleaners, and pressure sprayers) dilute 8 ounces of AM500 per gallon of water (2oz. per quart; 1oz. per pint); mix well. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test for staining and color-fastness of fabrics and carpets by treating and drying a small, concealed area prior to application. . AM500 treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates, more AM500 may be required due to absorption. Dry carpet areas and surfaces before re-entry and dry articles before use. A fan may be used to assist in drying carpet.

For Dipping/Soaking Application: Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough AM500 solution to completely submerge item. Dilute 8 ounces of AM500 per gallon of water (2oz. per quart; 1oz. per pint); mix well. Completely submerge item in solution for 3 minutes. Remove item and dry. Test for staining and color-fastness of fabrics by treating and drying a small, concealed area prior to application. Do not reuse solution after dipping/soaking.

The substrate can be dried at room temperature or at temperatures to a maximum of 160°C (320°F), for example in a clothes dryer. Remove excess liquid before attempting to dry in a clothes dryer. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

Approved commercial applications in homes, offices, automobiles, and institutions e.g. schools, hospitals, day care centers, banks, churches, correctional facilities

The active ingredient in AM500 is effective against odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew) and algae as a static agent. AM500 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

- Air Filters for furnaces, air-conditioners, air purification devices, automobiles, recirculating air handling systems.
- Air filters/materials
- Aquarium filter material
- Bed sheets, blankets, and bedspreads
- Buffer pads (abrasive and polishing)
- Carpets and draperies
- Cellulose sponges

- Concrete additive for sewer pipes, manholes and concrete sewer structures; not to be used in treatment of storm drains
- Concrete additive for repair and renewal of sewer pipes and manholes and concrete sewers structures; not to be used in treatment of storm drains
- Exterior walls (such as stone, concrete, brick)
- Fiberfill for upholstery, sleeping bags, apparel, where the fiber is cotton, natural down, nylon, polyester, rayon, or wool
- Fiberglass duct board
- Fire hose fabric
- Humidifier belts
- Mattress pads and ticking
- Men's underwear and outerwear
- Non-woven disposable diapers
- Non-woven polyester
- Outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos)
- AM500 can be used in paints and coatings as an in can preservative for protection of paint film and coating film. Types of paints and coatings include: latex indoor/outdoor paints and stains, woodstains, architectural paints, lacquer and maintenance coatings, films, laminates and finishes including alkyd, urethane, enamel, epoxy, siloxaline, amino resins, textile coatings, extrusion, coatings, architectural coatings and overlays, anti-corrosion coatings, fire-resistant coatings, aliphatic coatings, vinylester and polyester coatings, gel coating, amino resins, resins used as additive mixes for cement, epoxy laminating resins, and blends and copolymers thereof;
- Polyurethane and cellulose foam for household, industrial, and institutional sponges and mops
- Polyurethane and polyethylene foam, when covered
- Polyurethane foam for packaging and cushioning in non-food contact applications
- Polyurethane foam used as a growth medium for non-food crops and plants
- Pre-moistened towelettes and tissue wipes (these do not impart pesticidal properties)
- Roofing materials – defined as shingles, roofing granules, wood shakes, felt, stone and synthetic overcoats
- Sand bags, tents, tarpaulins, sails, and ropes
- Athletic and casual socks
- Shoe insoles
- Shower curtains
- Socks comprised of nylon, nylon/orlon, cotton/nylon, linen/Lycra, acrylic/polypropylene, nylon, Lycra, wood/silk/nylon/Lycra and wool/acrylic/nylon/Lyrca
- Throw rugs Toweling made of 100 percent cotton, 100 percent polyester, and blends of the two fibers
- Toilet Tank and seat covers
- Umbrellas
- Upholstery made of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethyiene, polyolefins, polyptopylene, rayon, spandex, vinyl, wool
- Vacuum cleaner bags and filters
- Vinyl paper-wallpaper for non-food contact surfaces

- Disposable wiping cloths that can be used for multiple purposes such as dusting or washing furniture, cars, walls, windows, floors, appliances, dishes, counter tops; the wiping cloths do not impart pesticide properties
- Women's hosiery
- Women's intimate apparel
- Wood

DIRECTIONS FOR USE

For homeowner applications

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles or face shield) and gloves when using this product. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry. Clean surfaces prior to application.

Approved homeowner uses

The active ingredient in AM500 is effective against odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae as a static agent. AM500 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

	Pest controlled	Dilution Rate	Method of Application
Bedsheets, blankets, bedspreads, curtains, draperies (washable only), underwear, socks, intimate apparel, hosiery, throw rugs, toweling, toilet tank covers, shower curtains, shoe insoles, outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos). AM500 can be	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	**DIP/SOAK:** Dilute AM500 in water; mix well. Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough AM500 solution to completely submerge item. Keep item in solution for 3 minutes. Remove item and wring excess liquid from treated item. For larger items (e.g. bedspreads, curtains, draperies), place in washing machine on spin cycle to aid in the removal of excess liquid. Test staining and color-fastness of fabric and carpets by treating and drying a small concealed area prior to application. Do not reuse solution after dipping/soaking. Dry treated articles before use. Substrates can be hang-dried at room temperature or at temperatures to a maximum of 160°C (320°F); (for example, in a clothes dryer). If necessary,

applied to fabrics made of acetates, acrylics, cotton, fiberglass, linen, Lycra, nylon, orlon, polyester, polyethylene, polyolefins, polypropylene, rayon, silk, spandex, vinyl, and wool.			reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return. **SPRAY:** Dilute AM500 in water; mix well. Clean surface prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**
Air filters and air filter material for: • Furnaces, air conditioners • Air purification systems • Automobiles • Recirculating air handling systems • Vacuum cleaner filters • Aquariums	Odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae	8 oz / gallon 2 oz / quart 1 oz / pint	**SPRAY:** Dilute AM500 in water; mix well. When treating filters, remove filter from the unit. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Apply and then let stand until dry. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, mildew stains, and algae stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**

Carpeting	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	**SPRAY:** Dilute AM500 in water; mix well. Apply to clean carpet surface. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. For rotary jet extraction cleaners and carpet steamers, add the diluted AM500 solution directly to the cleaning tank, then operate the equipment in accordance with manufacturer's instructions. Apply and then let stand until dry. Test staining and color-fastness of carpets by treating and drying a small concealed area prior to application. AM500 treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates (e.g., wool carpeting), more AM500 may be required due to absorption. Dry carpet areas and surfaces before re-entry. A fan may be used to assist in drying carpeting. Remove children and pets from treated area until completely dried. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**
Mattress pad and mattress ticking and upholstery composed of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethylene, polyolefins, polypropylene, rayon, spandex, vinyl, wool; fiberfill to be used in upholstery, sleeping bags,	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	**SPRAY:** Dilute AM500 in water; mix well. Clean surfaces prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application. When applying to mattress pads and ticking do not soak. Remove children and pets from treated area until completely dried. If necessary, reapply

apparel, where the fiber is cotton, natural down, nylon, rayon, or wool			AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**
Tents, tarpaulins, sails, ropes.	Odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae	8 oz / gallon 2 oz / quart 1 oz / pint	**SPRAY:** Dilute AM500 in water; mix well. Clean surface prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return. **DIP/SOAK:** Dilute AM500 in water; mix well. Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough AM500 solution to completely submerge item. Keep item in solution for 3 minutes. Remove item and wring excess liquid. Test staining and color-fastness of fabric and carpets by treating and drying a small concealed area prior to application. Do not reuse solution after dipping/soaking. Dry treated articles before use. Substrates can be hang-dried at room temperature or at temperatures to a maximum of 160°C (320°F); (for example, in a clothes dryer). If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**
Roofing materials	Odor-causing	8 oz / gallon	**SPRAY:** Dilute AM500 in water; mix

(such as shingles, roofing granules, wood shakes, felt, stone, synthetic overcoats) Exterior walls (such as stone, concrete, brick)	bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae	2 oz / quart 1 oz / pint	well. Make sure the roof or wall is clean prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 6"-12" from the surface, making sure the surface is completely covered. After applying the diluted solution of AM500, let stand until dry. AM500 treats approximately 200 square feet of roofing or wall per diluted gallon of water. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**
Buffer pads (polishing and abrasive), polyurethane for household sponges and mops, vacuum cleaner bags, umbrellas, casual shoes, athletic shoes	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	**SPRAY:** Dilute AM500 in water; mix well. Clean surface prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**
Tubs, glazed tile, vanity tops, shower curtains, shower stalls (areas), sinks, washable walls, wall paper for non-food contact, floors, window sills, cabinets, garbage cans, appliances, refrigerators (exterior), fiberglass, formica, glazed	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	**SPRAY:** Dilute AM500 in water; mix well. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

tiles, glazed porcelain, synthetic marble, plastic, vinyl, wood			

MOLD, MILDEW, ODOR PROTECTOR AND INHIBITOR AM500 is an antimicrobial agent effective against odor-causing bacteria.
AM500 is an antimicrobial agent effective against bacteria which cause staining and discoloration.
AM500 is an antimicrobial agent effective against fungi (mold and mildew).
AM500 is an antimicrobial agent effective against algae.
AM500, and antimicrobial agent, controls the source of odors on surfaces in the home, in the bathroom, in the kitchen. (Bacteriostatic, fungistatic (mold and mildew), algaestatic.
AM500, and antimicrobial agent, inhibits smelly odors caused by mold and mildew that can grow even in the cleanest of homes.
AM500, and antimicrobial agent, inhibits the growth of odor causing bacteria.
Effective on hard non-porous washable bathroom and kitchen surfaces and fixtures around the home.
Effective on modern hard non-porous washable surfaces like fiberglass, glazed porcelain, Formica®, stainless steel, synthetic marble.
Imparts microbiostatic properties.
Use on carpet and upholstery to inhibit odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew).
Unscented.
Use on carpet and upholstery to inhibit the growth of odor-causing bacteria.
Use on carpet and upholstery to inhibit the growth of bacteria which cause staining and discoloration.
Use on carpet and upholstery to inhibit the growth of fungi (mold and mildew).
Use on carpet and upholstery to inhibit the growth of odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.
Provides and invisible microbiostatic coating to inhibit the growth of odor-causing bacteria.
Provides and invisible microbiostatic coating to inhibit the growth of bacteria which cause staining and discoloration.
Provides and invisible microbiostatic coating to inhibit the growth of fungi (mold and mildew).
Provides and invisible microbiostatic coating to inhibit the growth of algae.
Provides and invisible microbiostatic coating to inhibit the growth of odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.
Prevents deterioration caused by bacteria and fungi (mold and mildew).
Inhibits deterioration caused by bacteria.
Resists development of microbial odors.
Resists development of stains and discoloration due to bacteria.
Resists development of stains due to fungi (mold and mildew).
Resists stains due to algae.
Resists development of microbial odors, stains and discoloration due to bacteria,

fungi (mold and mildew), and algae.
Provides/creates an invisible barrier to inhibit the growth of odor-causing bacteria.
Provides/creates an invisible barrier to inhibit the growth of bacteria which cause staining and discoloration.
Provides/creates an invisible barrier to inhibit the growth of fungi (mold and mildew).
Provides/creates an invisible barrier to inhibit the growth of algae.
Provides/creates an invisible barrier to inhibit the growth of odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.

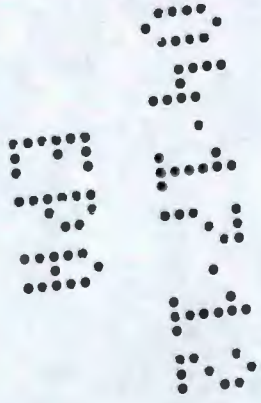
STORAGE AND DISPOSAL

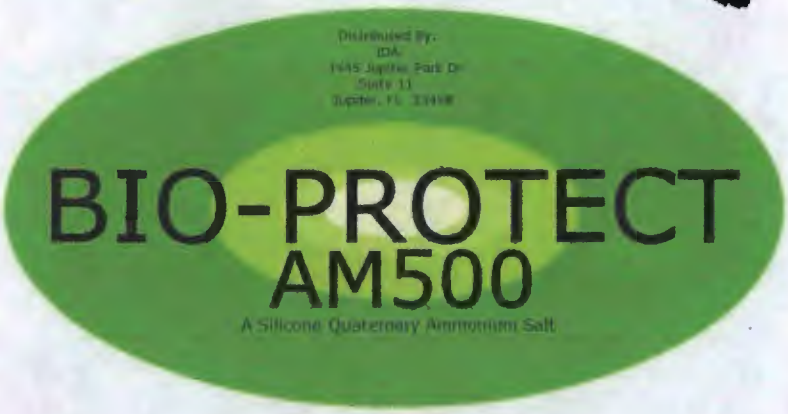
Do not contaminate water, food, or feed by storage and disposal.

Pesticide Storage: Store in original, tightly closed containers below 30°C (86°F) and above 0°C (32°F) in a secure area inaccessible to children and away from food or feed.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **[For homeowner use the statement will read:** "Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site."]

Container Disposal: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incinerate, or, if allowed by state and local authorities, dispose of by burning. If burned, stay out of smoke. **[For homeowners use statement will read:** "Container Disposal: Securely wrap original container in several layers of newspaper and discard in trash."]





MICROBIOSTATIC AGENT*
A Silicone Quaternary Ammonium Salt

Active Ingredient: 3-(trimethoxysilyl) propyldimethyloctadecyl ammonium chloride..... 5%
Other Ingredients: 95%
TOTAL INGREDIENTS: 100%

KEEP OUT OF REACH OF CHILDREN

WARNING

EPA Reg. No. 87583-2 EPA EST. 74348-FL-001

NET CONTENTS: 2, 4, 8, 16, 20, 22, or 36 fluid oz.; 1, 5, 55, 150, or 300 gal.
Lot No. _____

FIRST AID
IF IN EYES: • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. • Call poison control center or doctor for treatment advice.
IF INHALED: • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
IF ON SKIN: • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
IF SWALLOWED: • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.

*A microbiostatic agent is an agent that inhibits the growth of odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.
This product does not protect users or others against food-borne or disease-causing bacteria.

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING: Causes substantial but temporary eye injury. Harmful if absorbed through skin or inhaled. Do not get in eyes. Avoid contact with skin and avoid breathing vapor.
Wear protective eyewear (goggles or face shield). Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

ENVIRONMENTAL HAZARDS

Commercial and Industrial uses: This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

De-activation may be required during clean up if a spill occurs. De-activation of AM500 can be achieved by the addition of anionic surfactant (such as soap, sulfonates, sulfates) in quantity equivalent to that of AM500.

Homeowner use: This pesticide is toxic to fish. Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of pesticide.

DIRECTIONS FOR USE

Approved commercial and Industrial Applications

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles or face shield) and gloves when using this product. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry.

Prepare solution by simply adding AM500 to solvent and stirring. AM500 can also be diluted by adding 0.2 to 2 fluid ounces of AM500 per cup (3.2 to 32 fluid ounces of AM500 per gallon) of water or other solvents (for example, alcohol and ketones) and than applied to organic or inorganic substrates by brushing, dipping, padding, soaking, spraying, fogging or by using foam finishing techniques to give a final treatment of 0.1 to 1.0 percent by weight active ingredient.

Dry substrates at temperatures from ambient to a maximum of 160° C (320° F) to effect complete condensation of silanol groups and to remove water, solvents and/or traces of methanol from hydrolysis. Optimum application and drying conditions, such as time and temperature, should be determined for each application before use. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

AM500 when used as a concrete additive is added directly concrete preparation. Use 6 fluid ounces AM500 per cubic feet of concrete. Add to water before addition of concrete. Addition of AM500 reduces deterioration of sewer pipes and manholes by inhibiting microbiologically induced corrosion.

AM500 when used as an additive for paints and coatings is added directly during preparation of the paint or coating. Use 5 pounds of AM500 per 100 pounds of paint or coating (or 1 pound AM500 per 20 pounds paint/coating). The addition of the antimicrobial agent (AM500) to paints at the point of manufacture preserves the paint in the can as well as the dried paint film. AM500 inhabits the growth of odor causing bacteria, bacteria which causes staining and discoloration, fungi (mold and mildew), and algae on the surface of dried films and coatings.

Approved commercial and industrial applications

The active ingredient in AM500 is effective against odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew) and algae as a static agent. AM500 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

- Air Filters for furnaces, air-conditioners, air purification devices, automobiles, recirculating air handling systems.
- Air filters/materials
- Aquarium filter material
- Bed sheets, blankets, and bedspreads
- Buffer pads (abrasive and polishing)
- Carpets and draperies
- Cellulose sponges
- Concrete additive for sewer pipes, manholes and concrete sewer structures; not to be used in treatment of storm drains
- Concrete additive for repair and renewal of sewer pipes and manholes and concrete sewers structures; not to be used in treatment of storm drains
- Exterior walls (such as stone, concrete, brick)
- Fiberfill for upholstery, sleeping bags, apparel, where the fiber is cotton, natural down, nylon, polyester, rayon, or wool
- Fiberglass duct board
- Fire hose fabric
- Humidifier belts
- Mattress pads and ticking
- Men's underwear and outerwear
- Non-woven disposable diapers
- Non-woven polyester
- Outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos)
- AM500 can be used in paints and coatings as an in-can preservative for protection of paint film and coating film. Types of paints and coatings include: latex indoor/outdoor

paints and stains, woodstains, architectural paints, lacquer and maintenance coatings, films, laminates and finishes including alkyd, urethane, enamel, epoxy, siloxaline, amino resins, textile coatings, extrusion, coatings, architectural coatings and overlays, anti-corrosion coatings, fire-resistant coatings, aliphatic coatings, vinylester and polyester coatings, gel coating, amino resins, resins used as additive mixes for cement, epoxy laminating resins, and blends and copolymers thereof;

- Polyurethane and cellulose foam for household, industrial, and institutional sponges and mops
- Polyurethane and polyethylene foam, when covered
- Polyurethane foam for packaging and cushioning in non-food contact applications
- Polyurethane foam used as a growth medium for non-food crops and plants
- Pre-moistened towelettes and tissue wipes (these do not impart pesticidal properties)
- Roofing materials – defined as shingles, roofing granules, wood shakes, felt, stone and synthetic overcoats
- Sand bags, tents, tarpaulins, sails, and ropes
- Athletic and casual socks
- Shoe insoles
- Shower curtains
- Socks comprised of nylon, nylon/orlon, cotton/nylon, linen/Lycra, acrylic/polypropylene, nylon, Lycra, wood/silk/nylon/Lycra and wool/acrylic/nylon/Lyrca
- Throw rugs Toweling made of 100 percent cotton, 100 percent polyester, and blends of the two fibers
- Toilet Tank and seat covers
- Umbrellas
- Upholstery made of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethyiene, polyolefins, polyptopylene, rayon, spandex, vinyl, wool
- Vacuum cleaner bags and filters
- Vinyl paper-wallpaper for non-food contact surfaces
- Disposable wiping cloths that can be used for multiple purposes such as dusting or washing furniture, cars, walls, windows, floors, appliances, dishes, counter tops; the wiping cloths do not impart pesticide properties
- Woman's hosiery
- Woman's intimate apparel
- **Wood**

DIRECTIONS FOR USE

Approved commercial appliances used in homes, offices, automobiles and institutions e.g., schools, hospitals, daycare centers, churches, correctional facilities

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles and face shield) and gloves when using this product. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry. Clean surfaces prior to application.

For Pump Spray Application: Dilute 8 ounces of AM500 per gallon of water (2 oz. per quart; 1oz. per pint). Using pump sprayer, spray entire area 4"-6"s from the surface making sure the surface is completely covered. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth of sponge. If spotting occurs, wipe with moist cloth or sponge. Test for staining and color-fastness of fabrics and carpets by treating and drying a small, concealed area prior to application. AM500 treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates, more AM500 may be required due to absorption. A fan may be used to assist in drying carpet.

For Commercial Spray Application: For commercial application equipment (i.e. carpet/upholstery steamers, rotary jet extraction cleaners, and pressure sprayers) dilute 8 ounces of AM500 per gallon of water (2oz. per quart; 1oz. per pint); mix well. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test for staining and color-fastness of fabrics and carpets by treating and drying a small, concealed area prior to application. . AM500 treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates, more AM500 may be required due to absorption. Dry carpet areas and surfaces before re-entry and dry articles before use. A fan may be used to assist in drying carpet.

For Dipping/Soaking Application: Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough AM500 solution to completely submerge item. Dilute 8 ounces of AM500 per gallon of water (2oz. per quart; 1oz. per pint); mix well. Completely submerge item in solution for 3 minutes. Remove item and dry. Test for staining and color-fastness of fabrics by treating and drying a small, concealed area prior to application. Do not reuse solution after dipping/soaking.

The substrate can be dried at room temperature or at temperatures to a maximum of 160°C (320°F), for example in a clothes dryer. Remove excess liquid before attempting to dry in a clothes dryer. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

Approved commercial applications in homes, offices, automobiles, and institutions e.g., schools, hospitals, day care centers, banks, churches, correctional facilities

The active ingredient in AM500 is effective against odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew) and algae as a static agent. AM500 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

- Air Filters for furnaces, air-conditioners, air purification devices, automobiles, recirculating air handling systems.
- Air filters/materials
- Aquarium filter material
- Bed sheets, blankets, and bedspreads
- Buffer pads (abrasive and polishing)
- Carpets and draperies
- Cellulose sponges

- Concrete additive for sewer pipes, manholes and concrete sewer structures; not to be used in treatment of storm drains
- Concrete additive for repair and renewal of sewer pipes and manholes and concrete sewers structures; not to be used in treatment of storm drains
- Exterior walls (such as stone, concrete, brick)
- Fiberfill for upholstery, sleeping bags, apparel, where the fiber is cotton, natural down, nylon, polyester, rayon, or wool
- Fiberglass duct board
- Fire hose fabric
- Humidifier belts
- Mattress pads and ticking
- Men's underwear and outerwear
- Non-woven disposable diapers
- Non-woven polyester
- Outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos)
- AM500 can be used in paints and coatings as an in can preservative for protection of paint film and coating film. Types of paints and coatings include: latex indoor/outdoor paints and stains, woodstains, architectural paints, lacquer and maintenance coatings, films, laminates and finishes including alkyd, urethane, enamel, epoxy, siloxaline, amino resins, textile coatings, extrusion, coatings, architectural coatings and overlays, anti-corrosion coatings, fire-resistant coatings, aliphatic coatings, vinylester and polyester coatings, gel coating, amino resins, resins used as additive mixes for cement, epoxy laminating resins, and blends and copolymers thereof;
- Polyurethane and cellulose foam for household, industrial, and institutional sponges and mops
- Polyurethane and polyethylene foam, when covered
- Polyurethane foam for packaging and cushioning in non-food contact applications
- Polyurethane foam used as a growth medium for non-food crops and plants
- Pre-moistened towelettes and tissue wipes (these do not impart pesticidal properties)
- Roofing materials – defined as shingles, roofing granules, wood shakes, felt, stone and synthetic overcoats
- Sand bags, tents, tarpaulins, sails, and ropes
- Athletic and casual socks
- Shoe insoles
- Shower curtains
- Socks comprised of nylon, nylon/orlon, cotton/nylon, linen/Lycra, acrylic/polypropylene, nylon, Lycra, wood/silk/nylon/Lycra and wool/acrylic/nylon/Lyrca
- Throw rugs Toweling made of 100 percent cotton, 100 percent polyester, and blends of the two fibers
- Toilet Tank and seat covers
- Umbrellas
- Upholstery made of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethylene, polyolefins, polyptopylene, rayon, spandex, vinyl, wool
- Vacuum cleaner bags and filters
- Vinyl paper-wallpaper for non-food contact surfaces

- Disposable wiping cloths that can be used for multiple purposes such as dusting or washing furniture, cars, walls, windows, floors, appliances, dishes, counter tops; the wiping cloths do not impart pesticide properties
- Women's hosiery
- Women's intimate apparel
- Wood

DIRECTIONS FOR USE

For homeowner applications

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles or face shield) and gloves when using this product. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry. Clean surfaces prior to application.

Approved homeowner uses

The active ingredient in AM500 is effective against odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae as a static agent. AM500 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

	Pest controlled	Dilution Rate	Method of Application
Bedsheets, blankets, bedspreads, curtains, draperies (washable only), underwear, socks, intimate apparel, hosiery, throw rugs, toweling, toilet tank covers, shower curtains, shoe insoles, outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos). AM500 can be	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	**DIP/SOAK:** Dilute AM500 in water; mix well. Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough AM500 solution to completely submerge item. Keep item in solution for 3 minutes. Remove item and wring excess liquid from treated item. For larger items (e.g. bedspreads, curtains, draperies), place in washing machine on spin cycle to aid in the removal of excess liquid. Test staining and color-fastness of fabric and carpets by treating and drying a small concealed area prior to application. Do not reuse solution after dipping/soaking. Dry treated articles before use. Substrates can be hang-dried at room temperature or at temperatures to a maximum of 160°C (320°F); (for example, in a clothes dryer). If necessary,

applied to fabrics made of acetates, acrylics, cotton, fiberglass, linen, Lycra, nylon, orlon, polyester, polyethylene, polyolefins, polypropylene, rayon, silk, spandex, vinyl, and wool.			reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return. **SPRAY:** Dilute AM500 in water; mix well. Clean surface prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**
Air filters and air filter material for: • Furnaces, air conditioners • Air purification systems • Automobiles • Recirculating air handling systems • Vacuum cleaner filters • Aquariums	Odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae	8 oz / gallon 2 oz / quart 1 oz / pint	**SPRAY:** Dilute AM500 in water; mix well. When treating filters, remove filter from the unit. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Apply and then let stand until dry. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, mildew stains, and algae stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**

Carpeting	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	**SPRAY:** Dilute AM500 in water; mix well. Apply to clean carpet surface. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. For rotary jet extraction cleaners and carpet steamers, add the diluted AM500 solution directly to the cleaning tank, then operate the equipment in accordance with manufacturer's instructions. Apply and then let stand until dry. Test staining and color-fastness of carpets by treating and drying a small concealed area prior to application. AM500 treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates (e.g., wool carpeting), more AM500 may be required due to absorption. Dry carpet areas and surfaces before re-entry. A fan may be used to assist in drying carpeting. Remove children and pets from treated area until completely dried. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**
Mattress pad and mattress ticking and upholstery composed of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethylene, polyolefins, polypropylene, rayon, spandex, vinyl, wool; fiberfill to be used in upholstery, sleeping bags,	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	**SPRAY:** Dilute AM500 in water; mix well. Clean surfaces prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application. When applying to mattress pads and ticking do not soak. Remove children and pets from treated area until completely dried. If necessary, reapply

apparel, where the fiber is cotton, natural down, nylon, rayon, or wool			AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**
Tents, tarpaulins, sails, ropes.	Odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae	8 oz / gallon 2 oz / quart 1 oz / pint	**SPRAY:** Dilute AM500 in water; mix well. Clean surface prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return. **DIP/SOAK:** Dilute AM500 in water; mix well. Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough AM500 solution to completely submerge item. Keep item in solution for 3 minutes. Remove item and wring excess liquid. Test staining and color-fastness of fabric and carpets by treating and drying a small concealed area prior to application. Do not reuse solution after dipping/soaking. Dry treated articles before use. Substrates can be hang-dried at room temperature or at temperatures to a maximum of 160°C (320°F); (for example, in a clothes dryer). If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**
Roofing materials	Odor-causing	8 oz / gallon	**SPRAY:** Dilute AM500 in water; mix

(such as shingles, roofing granules, wood shakes, felt, stone, synthetic overcoats) Exterior walls (such as stone, concrete, brick)	bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae	2 oz / quart 1 oz / pint	well. Make sure the roof or wall is clean prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 6"-12" from the surface, making sure the surface is completely covered. After applying the diluted solution of AM500, let stand until dry. AM500 treats approximately 200 square feet of roofing or wall per diluted gallon of water. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**
Buffer pads (polishing and abrasive), polyurethane for household sponges and mops, vacuum cleaner bags, umbrellas, casual shoes, athletic shoes	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	**SPRAY:** Dilute AM500 in water; mix well. Clean surface prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**
Tubs, glazed tile, vanity tops, shower curtains, shower stalls (areas), sinks, washable walls, wall paper for non-food contact, floors, window sills, cabinets, garbage cans, appliances, refrigerators (exterior), fiberglass, formica, glazed	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	**SPRAY:** Dilute AM500 in water; mix well. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

tiles, glazed porcelain, synthetic marble, plastic, vinyl, wood			

MOLD, MILDEW, ODOR PROTECTOR AND INHIBITOR AM500 is an antimicrobial agent effective against odor-causing bacteria.
AM500 is an antimicrobial agent effective against bacteria which cause staining and discoloration.
AM500 is an antimicrobial agent effective against fungi (mold and mildew).
AM500 is an antimicrobial agent effective against algae.
AM500, and antimicrobial agent, controls the source of odors on surfaces in the home, in the bathroom, in the kitchen. (Bacteriostatic, fungistatic (mold and mildew), algaestatic.
AM500, and antimicrobial agent, inhibits smelly odors caused by mold and mildew that can grow even in the cleanest of homes.
AM500, and antimicrobial agent, inhibits the growth of odor causing bacteria.
Effective on hard non-porous washable bathroom and kitchen surfaces and fixtures around the home.
Effective on modern hard non-porous washable surfaces like fiberglass, glazed porcelain, Formica®, stainless steel, synthetic marble.
Imparts microbiostatic properties.
Use on carpet and upholstery to inhibit odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew).
Unscented.
Use on carpet and upholstery to inhibit the growth of odor-causing bacteria.
Use on carpet and upholstery to inhibit the growth of bacteria which cause staining and discoloration.
Use on carpet and upholstery to inhibit the growth of fungi (mold and mildew).
Use on carpet and upholstery to inhibit the growth of odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.
Provides and invisible microbiostatic coating to inhibit the growth of odor-causing bacteria.
Provides and invisible microbiostatic coating to inhibit the growth of bacteria which cause staining and discoloration.
Provides and invisible microbiostatic coating to inhibit the growth of fungi (mold and mildew).
Provides and invisible microbiostatic coating to inhibit the growth of algae.
Provides and invisible microbiostatic coating to inhibit the growth of odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.
Prevents deterioration caused by bacteria and fungi (mold and mildew).
Inhibits deterioration caused by bacteria.
Resists development of microbial odors.
Resists development of stains and discoloration due to bacteria.
Resists development of stains due to fungi (mold and mildew).
Resists stains due to algae.
Resists development of microbial odors, stains and discoloration due to bacteria,

fungi (mold and mildew), and algae.
Provides/creates an invisible barrier to inhibit the growth of odor-causing bacteria.
Provides/creates an invisible barrier to inhibit the growth of bacteria which cause staining and discoloration.
Provides/creates an invisible barrier to inhibit the growth of fungi (mold and mildew).
Provides/creates an invisible barrier to inhibit the growth of algae.
Provides/creates an invisible barrier to inhibit the growth of odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.

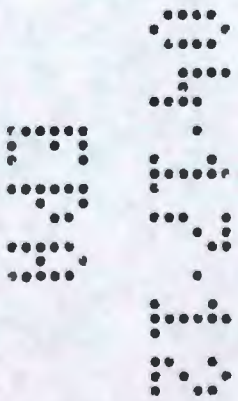
STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal.

Pesticide Storage: Store in original, tightly closed containers below 30°C (86°F) and above 0°C (32°F) in a secure area inaccessible to children and away from food or feed.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **[For homeowner use the statement will read:** "Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site."]

Container Disposal: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incinerate, or, if allowed by state and local authorities, dispose of by burning. If burned, stay out of smoke. **[For homeowners use statement will read:** "Container Disposal: Securely wrap original container in several layers of newspaper and discard in trash."]



Distributed By:
IDA
1445 Jupiter Park Dr
Suite 11
Jupiter, FL 33458

BIO-PROTECT AM500

A Silicone Quaternary Ammonium Salt

MICROBIOSTATIC AGENT *
A Silicone Quaternary Ammonium Salt

Active Ingredient: 3-(trimethoxysilyl) propyldimethyloctadecyl ammonium chloride..... 5%
Other Ingredients: 95%
TOTAL
INGREDIENTS: 100%

KEEP OUT OF REACH OF CHILDREN

WARNING

EPA Reg. No. 87583-2 EPA EST. 74348-FL-001

NET CONTENTS: 2, 4, 8, 16, 20, 22, or 36 fluid oz.; 1, 5, 55, 150, or 300 gal.
Lot No. _____

FIRST AID
IF IN EYES: • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. • Call poison control center or doctor for treatment advice.
IF INHALED: • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
IF ON SKIN: • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
IF SWALLOWED: • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.

*A microbiostatic agent is an agent that inhibits the growth of odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.
This product does not protect users or others against food-borne or disease-causing bacteria.

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING: Causes substantial but temporary eye injury. Harmful if absorbed through skin or inhaled. Do not get in eyes. Avoid contact with skin and avoid breathing vapor.
Wear protective eyewear (goggles or face shield). Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

ENVIRONMENTAL HAZARDS

Commercial and industrial uses: This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

De-activation may be required during clean up if a spill occurs. De-activation of AM500 can be achieved by the addition of anionic surfactant (such as soap, sulfonates, sulfates) in quantity equivalent to that of AM500.

Homeowner use: This pesticide is toxic to fish. Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of pesticide.

DIRECTIONS FOR USE

Approved commercial and Industrial Applications

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles or face shield) and gloves when using this product. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry.

Prepare solution by simply adding AM500 to solvent and stirring. AM500 can also be diluted by adding 0.2 to 2 fluid ounces of AM500 per cup (3.2 to 32 fluid ounces of AM500 per gallon) of water or other solvents (for example, alcohol and ketones) and than applied to organic or inorganic substrates by brushing, dipping, padding, soaking, spraying, fogging or by using foam finishing techniques to give a final treatment of 0.1 to 1.0 percent by weight active ingredient.

Dry substrates at temperatures from ambient to a maximum of 160° C (320° F) to effect complete condensation of silanol groups and to remove water, solvents and/or traces of methanol from hydrolysis. Optimum application and drying conditions, such as time and temperature, should be determined for each application before use. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

AM500 when used as a concrete additive is added directly concrete preparation. Use 6 fluid ounces AM500 per cubic feet of concrete. Add to water before addition of concrete. Addition of AM500 reduces deterioration of sewer pipes and manholes by inhibiting microbiologically induced corrosion.

AM500 when used as an additive for paints and coatings is added directly during preparation of the paint or coating. Use 5 pounds of AM500 per 100 pounds of paint or coating (or 1 pound AM500 per 20 pounds paint/coating). The addition of the antimicrobial agent (AM500) to paints at the point of manufacture preserves the paint in the can as well as the dried paint film. AM500 inhabits the growth of odor causing bacteria, bacteria which causes staining and discoloration, fungi (mold and mildew), and algae on the surface of dried films and coatings.

Approved commercial and industrial applications

The active ingredient in AM500 is effective against odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew) and algae as a static agent. AM500 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

- Air Filters for furnaces, air-conditioners, air purification devices, automobiles, recirculating air handling systems.
- Air filters/materials
- Aquarium filter material
- Bed sheets, blankets, and bedspreads
- Buffer pads (abrasive and polishing)
- Carpets and draperies
- Cellulose sponges
- Concrete additive for sewer pipes, manholes and concrete sewer structures; not to be used in treatment of storm drains
- Concrete additive for repair and renewal of sewer pipes and manholes and concrete sewers structures; not to be used in treatment of storm drains
- Exterior walls (such as stone, concrete, brick)
- Fiberfill for upholstery, sleeping bags, apparel, where the fiber is cotton, natural down, nylon, polyester, rayon, or wool
- Fiberglass duct board
- Fire hose fabric
- Humidifier belts
- Mattress pads and ticking
- Men's underwear and outerwear
- Non-woven disposable diapers
- Non-woven polyester
- Outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos)
- AM500 can be used in paints and coatings as an in-can preservative for protection of paint film and coating film. Types of paints and coatings include: latex indoor/outdoor

paints and stains, woodstains, architectural paints, lacquer and maintenance coatings, films, laminates and finishes including alkyd, urethane, enamel, epoxy, siloxaline, amino resins, textile coatings, extrusion, coatings, architectural coatings and overlays, anti-corrosion coatings, fire-resistant coatings, aliphatic coatings, vinylester and polyester coatings, gel coating, amino resins, resins used as additive mixes for cement, epoxy laminating resins, and blends and copolymers thereof;

- Polyurethane and cellulose foam for household, industrial, and institutional sponges and mops
- Polyurethane and polyethylene foam, when covered
- Polyurethane foam for packaging and cushioning in non-food contact applications
- Polyurethane foam used as a growth medium for non-food crops and plants
- Pre-moistened towelettes and tissue wipes (these do not impart pesticidal properties)
- Roofing materials – defined as shingles, roofing granules, wood shakes, felt, stone and synthetic overcoats
- Sand bags, tents, tarpaulins, sails, and ropes
- Athletic and casual socks
- Shoe insoles
- Shower curtains
- Socks comprised of nylon, nylon/orlon, cotton/nylon, linen/Lycra, acrylic/polypropylene, nylon, Lycra, wood/silk/nylon/Lycra and wool/acrylic/nylon/Lyrca
- Throw rugs Toweling made of 100 percent cotton, 100 percent polyester, and blends of the two fibers
- Toilet Tank and seat covers
- Umbrellas
- Upholstery made of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethyiene, polyolefins, polyptopylene, rayon, spandex, vinyl, wool
- Vacuum cleaner bags and filters
- Vinyl paper-wallpaper for non-food contact surfaces
- Disposable wiping cloths that can be used for multiple purposes such as dusting or washing furniture, cars, walls, windows, floors, appliances, dishes, counter tops; the wiping cloths do not impart pesticide properties
- Woman's hosiery
- Woman's intimate apparel
- **Wood**

DIRECTIONS FOR USE

Approved commercial appliances used in homes, offices, automobiles and institutions e.g., schools, hospitals, daycare centers, churches, correctional facilities

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles and face shield) and gloves when using this product. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry. Clean surfaces prior to application.

For Pump Spray Application: Dilute 8 ounces of AM500 per gallon of water (2 oz. per quart; 1oz. per pint). Using pump sprayer, spray entire area 4"-6"s from the surface making sure the surface is completely covered. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth of sponge. If spotting occurs, wipe with moist cloth or sponge. Test for staining and color-fastness of fabrics and carpets by treating and drying a small, concealed area prior to application. AM500 treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates, more AM500 may be required due to absorption. A fan may be used to assist in drying carpet.

For Commercial Spray Application: For commercial application equipment (i.e. carpet/upholstery steamers, rotary jet extraction cleaners, and pressure sprayers) dilute 8 ounces of AM500 per gallon of water (2oz. per quart; 1oz. per pint); mix well. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test for staining and color-fastness of fabrics and carpets by treating and drying a small, concealed area prior to application. . AM500 treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates, more AM500 may be required due to absorption. Dry carpet areas and surfaces before re-entry and dry articles before use. A fan may be used to assist in drying carpet.

For Dipping/Soaking Application: Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough AM500 solution to completely submerge item. Dilute 8 ounces of AM500 per gallon of water (2oz. per quart; 1oz. per pint); mix well. Completely submerge item in solution for 3 minutes. Remove item and dry. Test for staining and color-fastness of fabrics by treating and drying a small, concealed area prior to application. Do not reuse solution after dipping/soaking.

The substrate can be dried at room temperature or at temperatures to a maximum of 160°C (320°F), for example in a clothes dryer. Remove excess liquid before attempting to dry in a clothes dryer. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

Approved commercial applications in homes, offices, automobiles, and institutions e.g., schools, hospitals, day care centers, banks, churches, correctional facilities

The active ingredient in AM500 is effective against odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew) and algae as a static agent.
AM500 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

- Air Filters for furnaces, air-conditioners, air purification devices, automobiles, recirculating air handling systems.
- Air filters/materials
- Aquarium filter material
- Bed sheets, blankets, and bedspreads
- Buffer pads (abrasive and polishing)
- Carpets and draperies
- Cellulose sponges

- Concrete additive for sewer pipes, manholes and concrete sewer structures; not to be used in treatment of storm drains
- Concrete additive for repair and renewal of sewer pipes and manholes and concrete sewers structures; not to be used in treatment of storm drains
- Exterior walls (such as stone, concrete, brick)
- Fiberfill for upholstery, sleeping bags, apparel, where the fiber is cotton, natural down, nylon, polyester, rayon, or wool
- Fiberglass duct board
- Fire hose fabric
- Humidifier belts
- Mattress pads and ticking
- Men's underwear and outerwear
- Non-woven disposable diapers
- Non-woven polyester
- Outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos)
- AM500 can be used in paints and coatings as an in can preservative for protection of paint film and coating film. Types of paints and coatings include: latex indoor/outdoor paints and stains, woodstains, architectural paints, lacquer and maintenance coatings, films, laminates and finishes including alkyd, urethane, enamel, epoxy, siloxaline, amino resins, textile coatings, extrusion, coatings, architectural coatings and overlays, anti-corrosion coatings, fire-resistant coatings, aliphatic coatings, vinylester and polyester coatings, gel coating, amino resins, resins used as additive mixes for cement, epoxy laminating resins, and blends and copolymers thereof;
- Polyurethane and cellulose foam for household, industrial, and institutional sponges and mops
- Polyurethane and polyethylene foam, when covered
- Polyurethane foam for packaging and cushioning in non-food contact applications
- Polyurethane foam used as a growth medium for non-food crops and plants
- Pre-moistened towelettes and tissue wipes (these do not impart pesticidal properties)
- Roofing materials – defined as shingles, roofing granules, wood shakes, felt, stone and synthetic overcoats
- Sand bags, tents, tarpaulins, sails, and ropes
- Athletic and casual socks
- Shoe insoles
- Shower curtains
- Socks comprised of nylon, nylon/orlon, cotton/nylon, linen/Lycra, acrylic/polypropylene, nylon, Lycra, wood/silk/nylon/Lycra and wool/acrylic/nylon/Lyrca
- Throw rugs Toweling made of 100 percent cotton, 100 percent polyester, and blends of the two fibers
- Toilet Tank and seat covers
- Umbrellas
- Upholstery made of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethyiene, polyolefins, polyptopylene, rayon, spandex, vinyl, wool
- Vacuum cleaner bags and filters
- Vinyl paper-wallpaper for non-food contact surfaces

- Disposable wiping cloths that can be used for multiple purposes such as dusting or washing furniture, cars, walls, windows, floors, appliances, dishes, counter tops; the wiping cloths do not impart pesticide properties
- Women's hosiery
- Women's intimate apparel
- Wood

DIRECTIONS FOR USE

For homeowner applications

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles or face shield) and gloves when using this product. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry. Clean surfaces prior to application.

Approved homeowner uses

The active ingredient in AM500 is effective against odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae as a static agent. AM500 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

	Pest controlled	Dilution Rate	Method of Application
Bedsheets, blankets, bedspreads, curtains, draperies (washable only), underwear, socks, intimate apparel, hosiery, throw rugs, toweling, toilet tank covers, shower curtains, shoe insoles, outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos). AM500 can be	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	**DIP/SOAK:** Dilute AM500 in water; mix well. Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough AM500 solution to completely submerge item. Keep item in solution for 3 minutes. Remove item and wring excess liquid from treated item. For larger items (e.g. bedspreads, curtains, draperies), place in washing machine on spin cycle to aid in the removal of excess liquid. Test staining and color-fastness of fabric and carpets by treating and drying a small concealed area prior to application. Do not reuse solution after dipping/soaking. Dry treated articles before use. Substrates can be hang-dried at room temperature or at temperatures to a maximum of 160°C (320°F); (for example, in a clothes dryer). If necessary,

applied to fabrics made of acetates, acrylics, cotton, fiberglass, linen, Lycra, nylon, orlon, polyester, polyethylene, polyolefins, polypropylene, rayon, silk, spandex, vinyl, and wool.			reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return. **SPRAY:** Dilute AM500 in water; mix well. Clean surface prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**
Air filters and air filter material for: • Furnaces, air conditioners • Air purification systems • Automobiles • Recirculating air handling systems • Vacuum cleaner filters • Aquariums	Odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae	8 oz / gallon 2 oz / quart 1 oz / pint	**SPRAY:** Dilute AM500 in water; mix well. When treating filters, remove filter from the unit. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Apply and then let stand until dry. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, mildew stains, and algae stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**

Carpeting	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	**SPRAY:** Dilute AM500 in water; mix well. Apply to clean carpet surface. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. For rotary jet extraction cleaners and carpet steamers, add the diluted AM500 solution directly to the cleaning tank, then operate the equipment in accordance with manufacturer's instructions. Apply and then let stand until dry. Test staining and color-fastness of carpets by treating and drying a small concealed area prior to application. AM500 treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates (e.g., wool carpeting), more AM500 may be required due to absorption. Dry carpet areas and surfaces before re-entry. A fan may be used to assist in drying carpeting. Remove children and pets from treated area until completely dried. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**
Mattress pad and mattress ticking and upholstery composed of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethylene, polyolefins, polypropylene, rayon, spandex, vinyl, wool; fiberfill to be used in upholstery, sleeping bags,	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	**SPRAY:** Dilute AM500 in water; mix well. Clean surfaces prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application. When applying to mattress pads and ticking do not soak. Remove children and pets from treated area until completely dried. If necessary, reapply

apparel, where the fiber is cotton, natural down, nylon, rayon, or wool			AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**
Tents, tarpaulins, sails, ropes.	Odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae	8 oz / gallon 2 oz / quart 1 oz / pint	**SPRAY:** Dilute AM500 in water; mix well. Clean surface prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return. **DIP/SOAK:** Dilute AM500 in water; mix well. Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough AM500 solution to completely submerge item. Keep item in solution for 3 minutes. Remove item and wring excess liquid. Test staining and color-fastness of fabric and carpets by treating and drying a small concealed area prior to application. Do not reuse solution after dipping/soaking. Dry treated articles before use. Substrates can be hang-dried at room temperature or at temperatures to a maximum of 160°C (320°F); (for example, in a clothes dryer). If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**
Roofing materials	Odor-causing	8 oz / gallon	**SPRAY:** Dilute AM500 in water; mix

(such as shingles, roofing granules, wood shakes, felt, stone, synthetic overcoats) Exterior walls (such as stone, concrete, brick)	bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae	2 oz / quart 1 oz / pint	well. Make sure the roof or wall is clean prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 6"-12" from the surface, making sure the surface is completely covered. After applying the diluted solution of AM500, let stand until dry. AM500 treats approximately 200 square feet of roofing or wall per diluted gallon of water. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**
Buffer pads (polishing and abrasive), polyurethane for household sponges and mops, vacuum cleaner bags, umbrellas, casual shoes, athletic shoes	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	**SPRAY:** Dilute AM500 in water; mix well. Clean surface prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**
Tubs, glazed tile, vanity tops, shower curtains, shower stalls (areas), sinks, washable walls, wall paper for non-food contact, floors, window sills, cabinets, garbage cans, appliances, refrigerators (exterior), fiberglass, formica, glazed	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	**SPRAY:** Dilute AM500 in water; mix well. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

tiles, glazed porcelain, synthetic marble, plastic, vinyl, wood			

MOLD, MILDEW, ODOR PROTECTOR AND INHIBITOR AM500 is an antimicrobial agent effective against odor-causing bacteria.
AM500 is an antimicrobial agent effective against bacteria which cause staining and discoloration.
AM500 is an antimicrobial agent effective against fungi (mold and mildew).
AM500 is an antimicrobial agent effective against algae.
AM500, and antimicrobial agent, controls the source of odors on surfaces in the home, in the bathroom, in the kitchen. (Bacteriostatic, fungistatic (mold and mildew), algaestatic.
AM500, and antimicrobial agent, inhibits smelly odors caused by mold and mildew that can grow even in the cleanest of homes.
AM500, and antimicrobial agent, inhibits the growth of odor causing bacteria.
Effective on hard non-porous washable bathroom and kitchen surfaces and fixtures around the home.
Effective on modern hard non-porous washable surfaces like fiberglass, glazed porcelain, Formica®, stainless steel, synthetic marble.
Imparts microbiostatic properties.
Use on carpet and upholstery to inhibit odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew).
Unscented.
Use on carpet and upholstery to inhibit the growth of odor-causing bacteria.
Use on carpet and upholstery to inhibit the growth of bacteria which cause staining and discoloration.
Use on carpet and upholstery to inhibit the growth of fungi (mold and mildew).
Use on carpet and upholstery to inhibit the growth of odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.
Provides and invisible microbiostatic coating to inhibit the growth of odor-causing bacteria.
Provides and invisible microbiostatic coating to inhibit the growth of bacteria which cause staining and discoloration.
Provides and invisible microbiostatic coating to inhibit the growth of fungi (mold and mildew).
Provides and invisible microbiostatic coating to inhibit the growth of algae.
Provides and invisible microbiostatic coating to inhibit the growth of odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.
Prevents deterioration caused by bacteria and fungi (mold and mildew).
Inhibits deterioration caused by bacteria.
Resists development of microbial odors.
Resists development of stains and discoloration due to bacteria.
Resists development of stains due to fungi (mold and mildew).
Resists stains due to algae.
Resists development of microbial odors, stains and discoloration due to bacteria,

fungi (mold and mildew), and algae.
Provides/creates an invisible barrier to inhibit the growth of odor-causing bacteria.
Provides/creates an invisible barrier to inhibit the growth of bacteria which cause staining and discoloration.
Provides/creates an invisible barrier to inhibit the growth of fungi (mold and mildew).
Provides/creates an invisible barrier to inhibit the growth of algae.
Provides/creates an invisible barrier to inhibit the growth of odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.

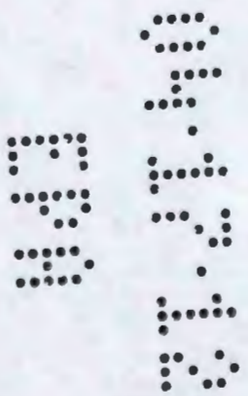
STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal.

Pesticide Storage: Store in original, tightly closed containers below 30°C (86°F) and above 0°C (32°F) in a secure area inaccessible to children and away from food or feed.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **[For homeowner use the statement will read:** "Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site."]

Container Disposal: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incinerate, or, if allowed by state and local authorities, dispose of by burning. If burned, stay out of smoke. **[For homeowners use statement will read:** "Container Disposal: Securely wrap original container in several layers of newspaper and discard in trash."]



Kevin Kutcel
Consultant for PureShield, Inc.
KRK Consulting LLC
5807 Churchill Way
Medina, OH 44256

SUBJECT: Bio-Protect AM500
EPA Registration Number: 87583-2
Application Date: October 31, 2011
Receipt Date: November 3, 2011

Dear Mr. Kutcel:

This letter acknowledges receipt of the amendment identified above submitted under the provisions of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended.

- Submission of two Alternate Formulations

The Alternate Confidential Statements of Formula (CSF) dated 12/28/11 have been reviewed. This amendment is unacceptable based on the following deficiencies.

1) This product was registered as á 100% repack. A decision to formulate this product instead of repacking requires the submission of product chemistry data, Group A and B. Your proposed CSFs dated 12/28/11 indicate that you intend to formulate.

2) [redacted]. Product chemistry data on this formulation must be submitted to support this change.

3) This type of change is a PRIA action, A570, 120 day time frame with the associated fee of $3473.00.

CONCURRENCES								
SYMBOL	7510P							
SURNAME	S Funk							
DATE	2/1/12							

In addition, several corrections are required on the CSFs. Make these corrections prior to resubmitting for review.

The source of active ingredient concentration must be corrected to agree with the label of that product (71.2%). Then recalculate the nominal concentration such that you are adding the appropriate amount of active ingredient to meet the label claim of 5%. Also indicate the corrected upper and lower certified limits for the AI.

General Comments

Please reply to the Agency by submitting revised CSFs and Product Chemistry data for review. In addition, submit a Certification with Respect to Citation of Data form along with Generic and Product Specific Data Compensation. Should you have any questions concerning this letter, please contact Tracy Lantz at (703) 308-6415.

Sincerely,

for Velma Noble
Product Manager (31)
Regulatory Management Branch I
Antimicrobials Division (7510P)

7510P:T.Lantz:2/1/2012:87583-2 unacc CSF

	CONCURRENCES						
SYMBOL							
SURNAME							
DATE							

Manufacturing process information may be entitled to confidential treatment

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

EPA United States Environmental Protection Agency **Office of Pesticide Programs**

Antimicrobials Division (AD)

February 1, 2012

DP BARCODE:	396154
MRID:	N/A
SUBJECT:	Bio-Protect AM500
REG. NO.:	87583-2
DOCUMENT TYPE:	Product Chemistry Review

Manufacturing-use [ ] OR End-use Product [X]

INGREDIENTS:

PC Code(s)	CAS Number	Active Ingredient(s):
[redacted]		

TEST LAB:	N/A
SUBMITTER:	PureShield Inc.
GUIDELINE:	N/A
ORGANIZATION:	AD\PSB\CTT
REVIEWER:	Lynette T. Umez-Eronini
APPROVED BY:	Karen P. Hicks
APPROVED DATE:	January 31, 2011
COMMENT:	This product is for non-food use.

Manufacturing process information may be entitled to confidential treatment

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

EPA United States Environmental Protection Agency **Office of Pesticide Programs**

Antimicrobials Division (AD)

February 1, 2012

MEMORANDUM

SUBJECT: Product Chemistry Review for EPA Reg. 87583-2
Product Name: BioProtect AM500
DP Barcode: 396154

CODE: A362

DATE DUE: February 1, 2012

FROM: Lynette T. Umez-Eronini, Chemist
Chemistry and Toxicology Team
Product Science Branch
Antimicrobials Division (7510P)

Lynette T. Umez-Eronini

THRU: Karen Hicks, Team Leader
Chemistry and Toxicology Team

Product Science Branch
Antimicrobials Division (7510P)

TO: Velma Noble PM#31/Tracy Lantz
Regulatory Management Branch I
Antimicrobials Division (7510P)

Applicant: PureShield Inc.

PRODUCT FORMULATION FROM LABEL:

Active Ingredient:	% by wt.
[redacted]	
Other Ingredient(s):	[redacted]
Total:	100.0

BACKGROUND:

The consultant, KRK Consulting LLC, on behalf of the registrant, PureShield Inc., has submitted a proposed amendment to add alternate #s (1 & 2) formulations for Bio-Protect AM500 (Reg. No. 87583-2). The basic CSF (Reg. No. 87583-2), dated May 10, 2010 is a 100% repack of [redacted]

Bio-Protect AM500 is an end-use product. This product is produced by non-integrated formulation system. The product is a microbiostatic agent that is used in paints and coatings as an in-can preservative for protection of paint film and coating film. This product is for non-food use.

[redacted]

The original data package included:

1. A letter from the applicant's representative to EPA, dated October 31, 2011.
2. A copy of the basic formulation (87583-2), dated May 10, 2010.
3. Two copies of two alternate formulations (87583-2), one dated October 13, 2011 and the other November 13, 2011. The said alternate formulations lack an identifier.
4. EPA Form 8570-1 (Amendment), dated October 31, 2011.
5. EPA Form 8570-34 (Certification with Respect to Citation of Data), dated May 13, 2011.
6. EPA Form 8570-35 (Data Matrix), dated May 13, 2011.

A revised data package included a copy of Alternate #s (1 & 2) formulations, dated December 28, 2011 and a proposed product label, sent via e-mail on December 28, 2011.

[redacted].

FINDINGS:

1. The registrant suggested that the purity of the active ingredient from the registered source (87583-1) is 71.2% as "...trimethoxy..." However the registered source consists 72% "...trimethoxy..."
2. The nominal concentration of the active ingredient on alternate #1 and #2 Formulations is inconsistent with their product label and must be 5% as per label.
3. The alternate #2 formulation differs from the basic formulation: therefore, alternate #2 formulation is a new product.
4. The registrant is using "commodity" terminology in column 10.

CONCLUSION:

Product Science Branch of Antimicrobials Division finds the submission for 87583-2 to add alternate formulations #1 and #2, dated December 28, 2011 to be unacceptable. Alternate #1 formulation must be updated (see Findings and Recommendations). Alternate #2 formulation represents a new product.

RECOMMENDATIONS:

1. The registrant must correct the percent purity of the active source (87583-1) to read 72% of methoxy from note #1 of the CSF. [redacted]
2. On alternate #1 formulation, the registrant must correct the percent purity of the active ingredient to 5% as per label.
3. The registrant must set the nominal concentration of the active ingredient to be 5% according the basic formulation. The basic formulation is a repack that represents 5% as per label.
4. On column 11, of the Formulations, the registrant must delete the term [redacted] and insert the supplier name and address.

DATA PACKAGE BEAN SHEET

Date: 16-Nov-2011

Decision #: 457615
DP #: (396154)
NON PRIA
Parent DP #:
Submission #: 906384
E-Sub #:

* * * Registration Information * * *

Registration: 87583-2 - BIO-PROTECT AM500

Company: 87583 - PURESHIELD INC

Risk Manager: RM 31 - Velma Noble - (703) 308-6233 Room# PY1 S-8855

Risk Manager Reviewer: Alison Tracy 31056

Sent Date: _____ Calculated Due Date: 01-Feb-2012 Edited Due Date: _____

OK

Type of Registration: Product Registration - Section 3

Action Desc: (362) FORMULA CHANGE;TECHNICAL;

Ingredients: 107401, 1-Octadecanaminium, N,N-dimethyl-N-(3-(trimethoxysilyl)propyl)-, chloride(5%)

* * * Data Package Information * * *

Expedite: ○ Yes ● No Date Sent: 16-Nov-2011 Due Back: _____

DP Ingredient: 107401, 1-Octadecanaminium, N,N-dimethyl-N-(3-(trimethoxysilyl)propyl)-, chloride

DP Title: _____

CSF Included: ○ Yes ● No Label Included: ○ Yes ● No Parent DP #: _____

90
60

	Assigned To	Date In	Date Out	
Organization:	AD / PSB	11/16/11		Last Possible Science Due Date: 18-Dec-2011
Team Name:	CTT	11/16/11		Science Due Date: 12/30/11
Reviewer Name:	Lynette	11/17/11		Sub Data Package Due Date: 1/13/12
Contractor Name:				

* * * Studies Sent for Review * * *

No Studies

* * * Additional Data Package for this Decision * * *

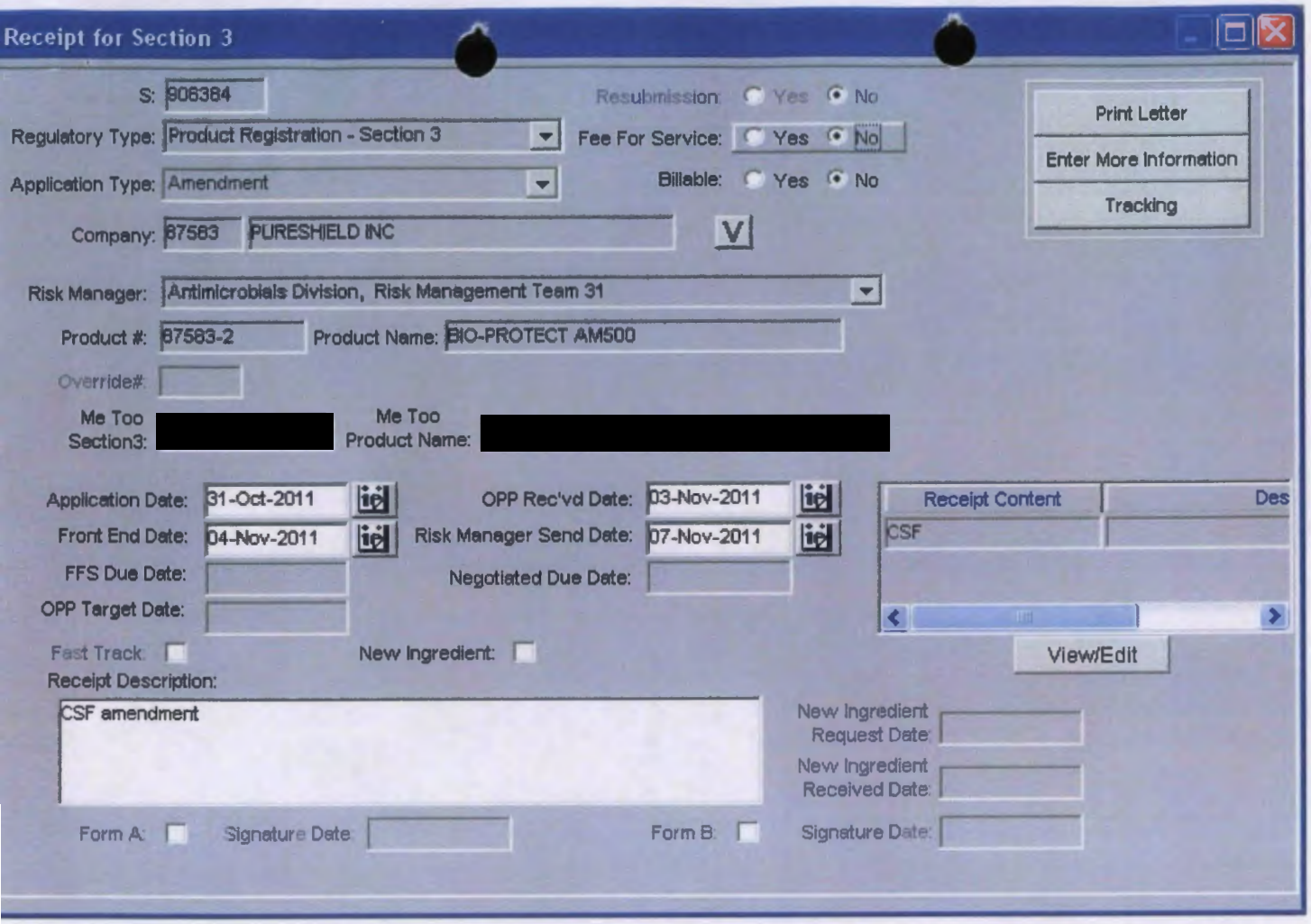
No Additional Data Packages

* * * Data Package Instructions * * *

Registrant has submitted CSF to be reviewed.

label & jacket

RECEIVED 11/16/11



Product ingredient source information may be entitled to confidential treatment

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

November 7, 2011

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

KEVIN KUTCEL
KRK CONSULTING LLC
PURESHIELD INC
5807 CHURCHILL WAY
MEDINA, OH 44256-

PRODUCT NAME: BIO-PROTECT AM500
COMPANY NAME: PURESHIELD INC
OPP IDENTIFICATION NUMBER:
EPA FILE SYMBOL: 87583-2
EPA RECEIPT DATE: 11/03/11

SUBJECT: RECEIPT OF AMENDMENT

DEAR REGISTRANT:

The Office of Pesticide Programs has received your application for an amendment and it has passed an administrative screen for completeness.

During the initial screen we determined that the application appears to qualify for fast track review. The package will now be forwarded to the Product Manager for review to determine its acceptability for fast track status.

If you have any questions, please contact Antimicrobials Division, Risk Management Team 31, at (703) 308-6233.

Sincerely,

Front End Processing Staff
Information Services Branch
Information Technology & Resources Management Division

Fee for Service

{906384;~

This package includes the following

- ○ New Registration
- ◉ Amendment

□ Studies? □ Fee Waiver?

□ volpay % Reduction: ____

for Division

- ○ AD
- ○ BPPD
- ◉ RD

Risk Mgr. 31

Receipt No. S-	906384
EPA File Symbol/Reg. No.	87583-2
Pin-Punch Date:	11/3/2011

☒ This item is NOT subject to FFS action.

Action Code:

Requested: ____

Granted: ____

Amount Due: $ _____

Parent/Child Decisions:

□ Inert Cleared for Intended Use □ Uncleared Inert in Product

Reviewer: Team 3 Date: 11/04/2011

Remarks:

Form Approved OMB Nos. 2070-0060; 2070-0057; 2070-0107; 2070-0122; 2070-0164

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
1200 Pennsylvania Avenue, N.W.
WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 1.25 hours per response for registration and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, Collection Strategies Division (2822T), U.S. Environmental Protection Agency, 1200 Pennsylvania Avenue, N.W., Washington, DC 20460. Do not send the completed form to this address.

Certification with Respect to Citation of Data

Applicant's/Registrant's Name, Address, and Telephone Number PureShield Inc., 1445 Jupiter Park, Suite 1, Jupiter, FL 33458 561-747-5758	EPA Registration Number/File Symbol 87583-2
Active Ingredient(s) and/or representative test compound(s) 3-(Trimethoxysilyl)propyl dimethyl octadecyl ammonium chloride	Date 10/31/11
General Use Pattern(s) (list all those claimed for this product using 40 CFR Part 158) antimicrobial	Product Name Bio-Protect AM500

NOTE: If your product is a 100% repackaging of another purchased EPA-registered product labeled for all the same uses on your label, you do not need to submit this form. You must submit the Formulator's Exemption Statement (EPA Form 8570-27).

☐ I am responding to a Data-Call-In Notice, and have included with this form a list of companies sent offers of compensation (the Data Matrix form should be used for this purpose).

SECTION I: METHOD OF DATA SUPPORT (Check one method only)

☐ I am using the cite-all method of support, and have included with this form a list of companies sent offers of compensation (the Data Matrix form should be used for this purpose).	☑ I am using the selective method of support (or cite-all option under the selective method), and have included with this form a completed list of data requirements (the Data Matrix form must be used).

SECTION II: GENERAL OFFER TO PAY

[Required if using the cite-all method or when using the cite-all option under the selective method to satisfy one or more data requirements]

☑ I hereby offer and agree to pay compensation, to other persons, with regard to the approval of this application, to the extent required by FIFRA.

SECTION III: CERTIFICATION

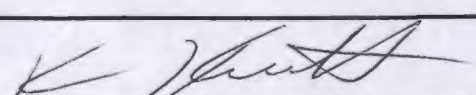
I certify that this application for registration, this form for reregistration, or this Data-Call-In response is supported by all data submitted or cited in the application for registration, the form for reregistration, or the Data-Call-In response. In addition, if the cite-all option or cite-all option under the selective method is indicated in Section I, this application is supported by all data in the Agency's files that (1) concern the properties or effects of this product or an identical or substantially similar product, or one or more of the ingredients in this product; and (2) is a type of data that would be required to be submitted under the data requirements in effect on the date of approval of this application if the application sought the initial registration of a product of identical or similar composition and uses .

I certify that for each exclusive use study cited in support of this registration or reregistration, that I am the original data submitter or that I have obtained the written permission of the original data submitter to cite that study.

I certify that for each study cited in support of this registration or reregistration that is not an exclusive use study, either: (a) I am the original data submitter; (b) I have obtained the permission of the original data submitter to use the study in support of this application; (c) all periods of eligibility for compensation have expired for the study; (d) the study is in the public literature; or (e) I have notified in writing the company that submitted the study and have offered (i) to pay compensation to the extent required by sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA; and (ii) to commence negotiations to determine the amount and terms of compensation, if any, to be paid for the use of the study.

I certify that in all instances where an offer of compensation is required, copies of all offers to pay compensation and evidence of their delivery in accordance with sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA are available and will be submitted to the Agency upon request. Should I fail to produce such evidence to the Agency upon request, I understand that the Agency may initiate action to deny, cancel or suspend the registration of my product in conformity with FIFRA.

I certify that the statements I have made on this form and all attachments to it are true, accurate, and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

Signature	Date	Typed or Printed Name and Title
	10/31/11	Kevin R. Kutcel - Consultant

EPA Form 8570-34 (12-2003) Electronic and Paper versions available. Submit only Paper version.

Form Approved OMB No. 2070-0060

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M Street, S.W.
WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX

Date 10/31/11	EPA Reg No./File Symbol 87583-2	Page 1 of 1
Applicant's/Registrant's Name & Address PureShield Inc., 1445 Jupiter Park, Suite 11, Jupiter, FL 33458	Product Bio-Protect AM500	

Ingredient 3-(trimethyloxysilyl) propyldimethyloctadecyl ammonium chloride

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
	BioShield Technologies, Inc. (1997) Product Identity and	44279401	Inhold LLC	per	cite-all
	Composition of AM 500 I and AM 500. 14 p.				
	BioShield Technologies, Inc. (1997) Description of	44279402	Inhold LLC	per	cite-all
	Beginning Materials and the Manufacturing Process of				
	AM 500 I and AM 500. Unpublished study. 24 p.				
	Berkner, J. (1997) Discussion of Formation of Impurities	44279403	Inhold LLC	per	cite-all
	in AM 500 I and AM 500. 4 p.				
	Wells, D. (1997) AM500--Conducting Product Chemistry	44279404	Inhold LLC	per	cite-all
	Studies for an End-Use Product. 44 p. (OPPTS 830.6302,				
	830.6303, 830.6304, 830.7300,830.7100, & 830.7000)				
	Jellinek, Schwartz & Connolly, Inc. (1997) Preliminary	44351901	Inhold LLC	per	cite-all
	Analysis, Certification of Ingredient Limits, and Analytical				
	Method for Enforcement of Limits for BioShield AM 500				
	and BioShield AM 500 I. 13 p.				

Signature	Name and Title	Date
	Kevin Kutcel - Consultant	10/31/11

EPA Form 8570-35 (9-97) Electronic and Paper versions available. Submit only Paper version.

Agency Internal Use Copy

Form Approved OMB No. 2070-0060

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M Street, S.W.
WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX

Date 10/31/11	EPA Reg No./File Symbol 87583-2	Page 1 of 1
Applicant's/Registrant's Name & Address PureShield Inc., 1445 Jupiter Park, Suite 11, Jupiter, FL 33458	Product Bio-Protect AM500	

Ingredient 3-(trimethyloxysilyl) propyldimethyloctadecyl ammonium chloride

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
[redacted]			Inhold LLC	per	
			Inhold LLC	per	
			Inhold LLC	per	
			Inhold LLC	per	
			Inhold LLC	per	

Signature	Name and Title	Date
K Kutcel	Kevin Kutcel - Consultant	10/31/11

EPA Form 8570-35 (9-97) Electronic and Paper versions available. Submit only Paper version.

Public File Copy

Please read instructions on reverse before complet[illegible]rm. Form Approved, OM[illegible]. 2070-0060 Print Form

EPA United States Environmental Protection Agency Washington, DC 20460

[ ] Registration [X] Amendment [ ] Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number: PureShield Inc. / 87583-2
2. EPA Product Manager: Velma Noble
3. Proposed Classification: [X] None [ ] Restricted
4. Company/Product (Name): PureShield Inc. / Bio-Protect AM500
PM#: 31
5. Name and Address of Applicant *(Include ZIP Code)*:
PureShield Inc.
1445 Jupiter Park Drive, #11
Jupiter, FL 33458
[X] *Check if this is a new address*
6. **Expedited Review.** In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to:
EPA Reg. No. _____
Product Name _____

Section - II

[X] Amendment - Explain below.
[ ] Resubmission in response to Agency letter dated _____
[ ] Notification - Explain below.
[ ] Final printed labels in response to Agency letter dated _____
[ ] "Me Too" Application.
[ ] Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Please accept the proposed two alternate CSF's for Reg. No. 87583-2. Please see cover letter for more information.

Section - III

1. Material This Product Will Be Packaged In:

Child-Resistant Packaging: [ ] Yes* [X] No
* *Certification must be submitted*

Unit Packaging: [ ] Yes [X] No
If "Yes" Unit Packaging wgt. / No. per container

Water Soluble Packaging: [ ] Yes [X] No
If "Yes" Package wgt / No. per container

2. Type of Container: [ ] Metal [X] Plastic [ ] Glass [ ] Paper [ ] Other (Specify) _____

3. Location of Net Contents Information: [X] Label [ ] Container

4. Size(s) Retail Container: 2, 4, 8, 16, 20, 22, 36 oz
1, 5, 55, 150, 300 gallons

5. Location of Label Directions: [X] On Label [ ] On Labeling accompanying product

6. Manner in Which Label is Affixed to Product: [ ] Lithograph [X] Paper glued [ ] Stenciled [ ] Other _____

Section - IV

1. Contact Point *(Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)*

Name	Title	Telephone No. (Include Area Code)
Kevin Kutcel	Consultant	440-263-730[illegible]

Certification

I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

6. Date Application Received (Stamped)

2. Signature: K Kutcel
3. Title: Consultant
4. Typed Name: Kevin Kutcel
5. Date: Oct 31, 2011

EPA Form 8570-1 (Rev. 8-94) Previous editions are obsolete. White - EPA File Copy (original) Yellow - Applicant Copy

Product ingredient source information may be entitled to confidential treatment

KRK Consulting LLC

5807 Churchill Way
Medina, OH 44256
Tel: 440-263-7305
E-mail: kevinkutcel@gmail.com

October 31, 2011

Document Processing Desk (AMEND)
Office of Pesticide Programs (7504P)
U.S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, VA 22202-4501

Subject: CSF Formulation Amendment (EPA No. 87583-2)

Please accept the attached two copies of two alternate Confidential Statement of Formula (EPA Form 8570-4) for Reg. No. 87583-2 "Bio-Protect AM500" along with one copy of the current Confidential State of Formula on file with the EPA for this registration.

Please note that both of these proposed alternate CSF's were previously filed with the US EPA on May 12, 2011 and were reviewed by Lynette T. Umez-Eronini on a report issued on August 2, 2011 (DP Barcode 390059). KRK Consulting LLC then contacted and worked with Lynette T. Umez-Eronini regarding the deficiencies cited in her report and the attached CSF's were met with her approval. Ms. Umez-Eronini was then instructed by Ms. Velma Noble that the revised CSF's must be re-submitted to the US EPA for approval. Since these CSF's have already been examined and approved by Ms. Lynette T. Umez-Eronini, KRK Consulting LLC respectively requests that these revised CSF's be given to her since she has prior knowledge of them.

Please note that the original CSF is a 100% repackage of [redacted] These alternate CSF's are identical to the original CSF and alternate CSF used in the manufacture of the product, [redacted]

[redacted], attached is a letter of authorization from Inhold LLC granting permission to cite their relevant product chemistry and the corresponding data matrices citing the specific product chemistry studies.

Please note that KRK Consulting LLC is the authorized agent handling all correspondence for PureShield Inc. and therefore all responses should be directed to the contact information on the letterhead above.

Best Regards,

Kevin R. Kutcel,
Agent for PureShield Inc.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Kevin Kutcel
Agent for PureShield, Inc.
KRK Consulting, LLC
5807 Churchill Way
Medina, OH 44256

AUG 12 2011

SUBJECT: Bio-Protect AM500
EPA Registration Number: 87583-2
Application Date: May 12, 2011
Receipt Date: May 17, 2011

Dear Mr. Kutcel:

This letter acknowledges receipt of the notification identified above submitted under provisions of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) as amended and PR Notice 98-10.

- Proposed Alternate CSF for Reg. No 87583-2 "BioProtect AM500".

The proposed amendment to accept the alternate CSF, dated March 1, 2011 was reviewed and found to require correction: therefore, it is unacceptable. For details see attached associated chemistry review.

General Comments

Should you have any questions concerning this letter, please contact Emilia Oiguenblik at (703) 347-0109 or Velma Noble at (703) 308-6233.

Sincerely,

Velma Noble
Product Manager (31)
Regulatory Management Branch I
Antimicrobials Division (7510P)

CONCURRENCES								
SYMBOL								
SURNAME								
DATE								

EPA Form 1320-1A (1/90) *Printed on Recycled Paper* OFFICIAL FILE COPY

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

EPA United States Environmental Protection Agency **Office of Pesticide Programs**

Antimicrobials Division (AD)

August 2, 2011

MEMORANDUM

SUBJECT: Product Chemistry Review for EPA Reg. 87583-2
Product Name: Bio-Protect AM500
DP Barcode: 390059

CODE: (362) Formula Change Technical

DATE DUE: July 22, 2011

FROM: Lynette T. Umez-Eronini, Chemist
Chemistry and Toxicology Team
Product Science Branch
Antimicrobials Division (7510P)

Lynette T. Umez Eronini

THRU: Karen Hicks, Team Leader
Chemistry and Toxicology Team
Product Science Branch
Antimicrobials Division (7510P)

for KPH

TO: Velma Noble PM#31/Emilia Oiguenblik
Regulatory Management Branch I
Antimicrobials Division (7510P)

Applicant: PureShield Inc.

PRODUCT FORMULATION FROM LABEL:

Active Ingredient(s):	% by wt.
3-(Trimethoxysilyl) propyldimethyloctadecyl ammonium chloride	5.0
Other Ingredient(s):	95.0
Total:	100.0

Product ingredient source information may be entitled to confidential treatment

BACKGROUND:

Consultant, Kelvin Kutcel on behalf of PureShield Inc., has submitted an amendment for a proposed alternate Confidential Statement of Formulation (CSF) for Bio-Protect AM500. The original (basic) CSF is a 100% repack of [redacted] attached is a letter of authorization from Inhold LLC granting permission to cite relevant product chemistry and the corresponding data matrices citing the specific product chemistry studies. Bio-Protect AM500 is a non-integrated end-use product. The product is a microbiostatic agent that is used in paints and coatings as an in can preservative for protection of paint film and coating film.

The original data package included:

1. A letter from the applicant's representative to EPA, dated May 12, 2010 and pin-punched May 17, 2011.
2. A copy of a basic Confidential Statement of Formula (CSF), dated May 10, 2010.
3. Two copies of an alternate CSF, dated March 1, 2011.
4. EPA Form 8570-1 (Amendment), dated May 12, 2011.
5. EPA Form 8570-34 (Certification with Respect to Citation of Data), dated May 13, 2011.
6. EPA Form 8570-35 (Data Matrix), dated May 13, 2011;

FINDINGS:

Note: [redacted]

1. [redacted]
2. The basic CSF (dated May 10, 2010) and the alternate CSF (dated March 1, 2011) and product label, also list the Trimethoxy . . . as the active ingredient. [redacted]
3. [redacted]
4. [redacted]
5. [redacted]

6. [redacted]

CONCLUSION:

The proposed amendment to accept the alternate CSF, dated March 1, 2011 was reviewed and found to require correction: therefore, it is unacceptable.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

EPA United States Environmental Protection Agency **Office of Pesticide Programs**

Antimicrobials Division (AD)

August 2, 2011

DP BARCODE: 390059

MRID : N/A

SUBJECT: Bio-Protect AM500

REG. NO.: 87583-2

DOCUMENT TYPE: Product Chemistry Review

Manufacturing-use [ ] OR End-use Product [X]

INGREDIENTS:

PC Code(s)	CAS Number	Active Ingredient(s):
107401	27668-52-6	1-Octadecanaminium, N,N-dimethyl-N-(3-(Trimethoxysilyl)propyl)-, chloride (5%)

TEST LAB: N/A

SUBMITTER: PureShield Inc.

GUIDELINE: Product Chemistry

ORGANIZATION: AD\PSB\CTT

REVIEWER: Lynette T. Umez-Eronini

APPROVED BY: Karen P. Hicks

APPROVED DATE: August 2, 2011

COMMENT:

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

EPA United States Environmental Protection Agency **Office of Pesticide Programs**

Kevin R. Kutcel,
KRK Consulting LLC,
5807 Churchill Way'
Medina, OH 44256

JUL 22 2011

Subject: PureShield Inc./ Bio-Protect AM 500
EPA Registration No.: 87583-2
Notification Date: 6/17/11
EPA Receipt Date: 6/22/11
Submission #: 898338

Dear Mr. Kutcel ,

This letter acknowledges receipt of your notification submitted under the provision of FIFRA section 3(c)9 and PR Notice 98-10.

Proposed notification request for alternative brand name:

- Bio-Protect 500

General Comments

Based on a review of the submitted material, your notification of a request for alternative brand names for your product, "PureShield Inc./ Bio-Protect AM 500", is acceptable.

Should you have any questions or comments concerning this letter, please contact Velma Noble at (703) 308-6233 or Jamil Mixon at (703) 308-8032.

Sincerely,

Velma Noble
Product Manager -31
Regulatory Management Branch
Antimicrobials Division (7510P)

CONCURRENCES								
SYMBOL								
SURNAME								
DATE								

Material Sent for Data Extraction

Reg # 87583-2

Description: _____

☐ Material(s) Sent to Data Extraction Contractors:

- ☐ New Stamped Label Dated _____
- ☑ Notification Dated _____
- ☐ New CSF(s) Dated _____
- ☐ Other: _____

☐ Decision #: _____

☐ Other Action/Comments: _____

_____

Attach this coversheet to the top of the material or jacket. It must be well organized and clipped together, NOT STAPLED. Then give the material with this coversheet to staff in the Information Services Center (Room S-4900).

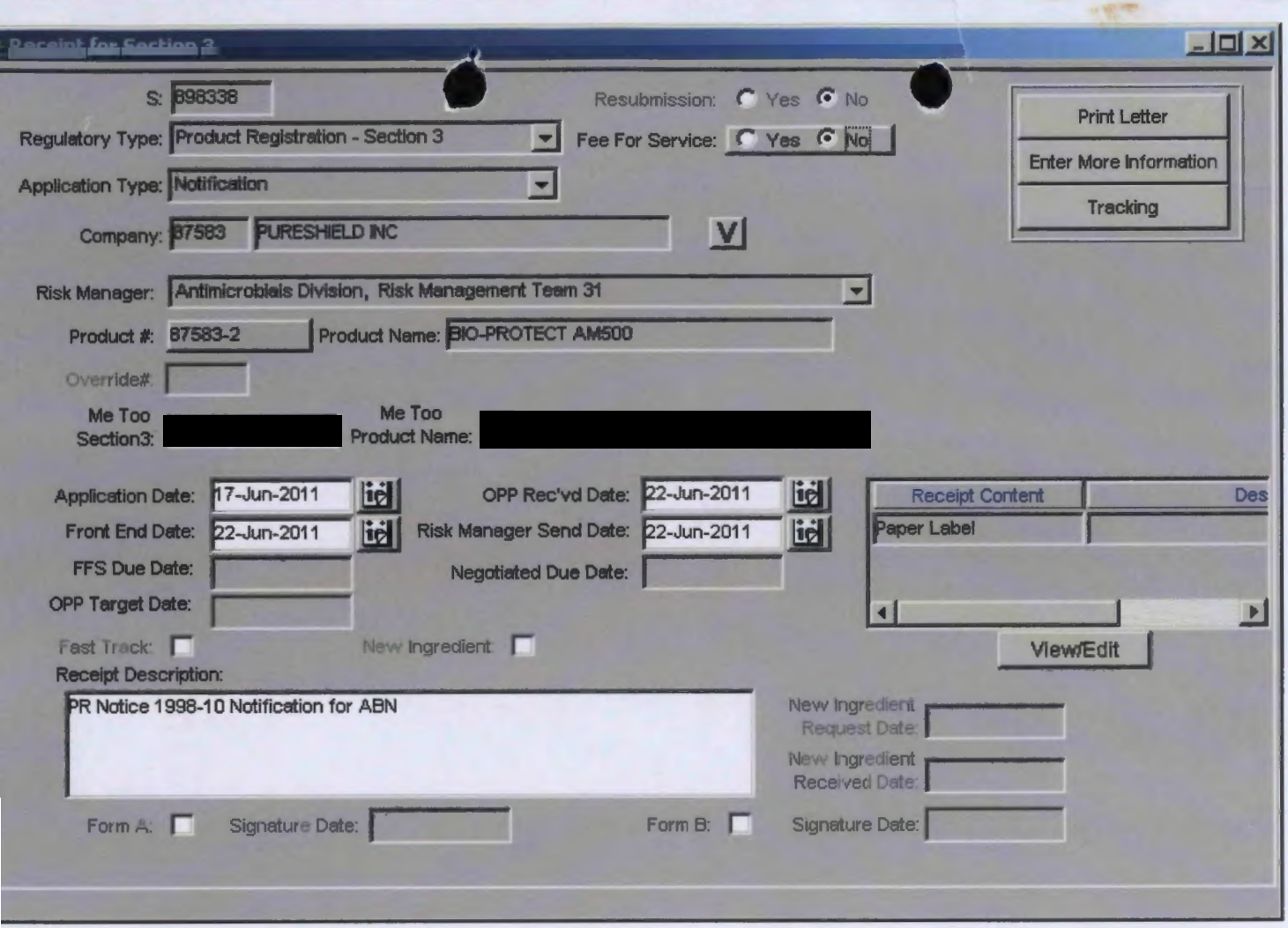
Reviewer: DM Team 3'

Phone: (703) 308-8032 Division: AD

Date: 7/21/11

Created February 3, 2011

mrf



Product ingredient source information may be entitled to confidential treatment

Bio-Protect 500

MICROBIOSTATIC AGENT *
A Silicone Quaternary Ammonium Salt

Active Ingredient: 3-(trimethoxysilyl) propyldimethyloctadecyl ammonium chloride.....5.0%
Other Ingredients: 95.0%
TOTAL INGREDIENTS: 100.0%

KEEP OUT OF REACH OF CHILDREN

WARNING

EPA Reg. No. 87583-2 EPA EST. xxxxx-xx-xxxx

NET CONTENTS: 2, 4, 8, 16, 20, 22, or 36 fluid oz.; 1, 5, 55, 150, or 300 gal.

FIRST AID
IF IN EYES: • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. • Call poison control center or doctor for treatment advice.
IF INHALED: • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
IF ON SKIN: • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
IF SWALLOWED: • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.

*A microbiostatic agent is an agent that inhibits the growth of odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.
This product does not protect users or others against food-borne or disease-causing bacteria.

PURESHIELD INC , 1445 Jupiter Park Drive # 11, Jupiter, Florida 33458

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING: Causes substantial but temporary eye injury. Harmful if absorbed through skin or inhaled. Do not get in eyes. Avoid contact with skin and avoid breathing vapor.
Wear protective eyewear (goggles or face shield). Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

ENVIRONMENTAL HAZARDS

Commercial and industrial uses: This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge
Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

De-activation may be required during clean up if a spill occurs. De-activation of Pathene can be achieved by the addition of anionic surfactant (such as soap, sulfonates, sulfates) in quantity equivalent to that of Pathene.

Homeowner use: This pesticide is toxic to fish. Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of pesticide.

DIRECTIONS FOR USE

Approved commercial and Industrial Applications

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles or face shield) and gloves when using this product. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry.

Prepare solution by simply adding Pathene to solvent and stirring. Pathene can also be diluted by adding 0.2 to 2 fluid ounces of Pathene per cup (3.2 to 32 fluid ounces of Pathene per gallon) of water or other solvents (for example, alcohol and ketones) and than applied to organic or inorganic substrates by brushing, dipping, padding, soaking, spraying, fogging or by using foam finishing techniques to give a final treatment of 0.1 to 1.0 percent by weight active ingredient.

Dry substrates at temperatures from ambient to a maximum of 160° C (320° F) to effect complete condensation of silanol groups and to remove water, solvents and/or traces of methanol from hydrolysis. Optimum application and drying conditions, such as time and temperature, should be determined for each application before use. If necessary, reapply Pathene every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

Pathene when used as a concrete additive is added directly concrete preparation. Use 6 fluid ounces Pathene per cubic feet of concrete. Add to water before addition of concrete. Addition of Pathene reduces deterioration of sewer pipes and manholes by inhibiting microbiologically induced corrosion.

Pathene when used as an additive for paints and coatings is added directly during preparation of the paint or coating. Use 5 pounds of Pathene per 100 pounds of paint or coating (or 1 pound Pathene per 20 pounds paint/coating). The addition of the antimicrobial agent (Pathene) to paints at the point of manufacture preserves the paint in the can as well as the dried paint film. Pathene inhabits the growth of odor causing bacteria, bacteria which causes staining and discoloration, fungi (mold and mildew), and algae on the surface of dried films and coatings.

Approved commercial and industrial applications

The active ingredient in Pathene is effective against odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew) and algae as a static agent. Pathene can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

- Air Filters for furnaces, air-conditioners, air purification devices, automobiles, recirculating air handling systems.
- Air filters/materials
- Aquarium filter material
- Bed sheets, blankets, and bedspreads
- Buffer pads (abrasive and polishing)
- Carpets and draperies
- Cellulose sponges
- Concrete additive for sewer pipes, manholes and concrete sewer structures; not to be used in treatment of storm drains
- Concrete additive for repair and renewal of sewer pipes and manholes and concrete sewers structures; not to be used in treatment of storm drains
- Exterior walls (such as stone, concrete, brick)
- Fiberfill for upholstery, sleeping bags, apparel, where the fiber is cotton, natural down, nylon, polyester, rayon, or wool
- Fiberglass duct board
- Fire hose fabric
- Humidifier belts
- Mattress pads and ticking
- Men's underwear and outerwear
- Non-woven disposable diapers
- Non-woven polyester
- Outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos)
- Pathene can be used in paints and coatings as an in-can preservative for protection of paint film and coating film. Types of paints and coatings include: latex indoor/outdoor paints and stains, woodstains, architectural paints, lacquer and maintenance coatings,

films, laminates and finishes including alkyd, urethane, enamel, epoxy, siloxaline, amino resins, textile coatings, extrusion, coatings, architectural coatings and overlays, anti-corrosion coatings, fire-resistant coatings, aliphatic coatings, vinylester and polyester coatings, gel coating, amino resins, resins used as additive mixes for cement, epoxy laminating resins, and blends and copolymers thereof;

- Polyurethane and cellulose foam for household, industrial, and institutional sponges and mops
- Polyurethane and polyethylene foam, when covered
- Polyurethane foam for packaging and cushioning in non-food contact applications
- Polyurethane foam used as a growth medium for non-food crops and plants
- Pre-moistened towelettes and tissue wipes (these do not impart pesticidal properties)
- Roofing materials – defined as shingles, roofing granules, wood shakes, felt, stone and synthetic overcoats
- Sand bags, tents, tarpaulins, sails, and ropes
- Athletic and casual socks
- Shoe insoles
- Shower curtains
- Socks comprised of nylon, nylon/orlon, cotton/nylon, linen/Lycra, acrylic/polypropylene, nylon, Lycra, wood/silk/nylon/Lycra and wool/acrylic/nylon/Lyrca
- Throw rugs Toweling made of 100 percent cotton, 100 percent polyester, and blends of the two fibers
- Toilet Tank and seat covers
- Umbrellas
- Upholstery made of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethyiene, polyolefins, polyptopylene, rayon, spandex, vinyl, wool
- Vacuum cleaner bags and filters
- Vinyl paper-wallpaper for non-food contact surfaces
- Disposable wiping cloths that can be used for multiple purposes such as dusting or washing furniture, cars, walls, windows, floors, appliances, dishes, counter tops; the wiping cloths do not impart pesticide properties
- Woman's hosiery
- Woman's intimate apparel

DIRECTIONS FOR USE

Approved commercial appliances used in homes, offices, automobiles and institutions e.g., schools, hospitals, daycare centers, churches, correctional facilities

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles and face shield) and gloves when using this product. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry. Clean surfaces prior to application.

For Pump Spray Application: Dilute 8 ounces of Pathene per gallon of water (2 oz. per quart; 1oz. per pint). Using pump sprayer, spray entire area 4"-6"s from the surface making sure the surface is completely covered. Apply and then let stand until dry or let stand 3 minutes and wipe

dry with cloth of sponge. If spotting occurs, wipe with moist cloth or sponge. Test for staining and color-fastness of fabrics and carpets by treating and drying a small, concealed area prior to application. Pathene treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates, more Pathene may be required due to absorption. A fan may be used to assist in drying carpet.

For Commercial Spray Application: For commercial application equipment (i.e. carpet/upholstery steamers, rotary jet extraction cleaners, and pressure sprayers) dilute 8 ounces of Pathene per gallon of water (2oz. per quart; 1oz. per pint); mix well. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test for staining and color-fastness of fabrics and carpets by treating and drying a small, concealed area prior to application. . Pathene treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates, more Pathene may be required due to absorption. Dry carpet areas and surfaces before re-entry and dry articles before use. A fan may be used to assist in drying carpet.

For Dipping/Soaking Application: Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough Pathene solution to completely submerge item. Dilute 8 ounces of Pathene per gallon of water (2oz. per quart; 1oz. per pint); mix well. Completely submerge item in solution for 3 minutes. Remove item and dry. Test for staining and color-fastness of fabrics by treating and drying a small, concealed area prior to application. Do not reuse solution after dipping/soaking.

The substrate can be dried at room temperature or at temperatures to a maximum of 160°C (320°F), for example in a clothes dryer. Remove excess liquid before attempting to dry in a clothes dryer. If necessary, reapply Pathene every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

Approved commercial applications in homes, offices, automobiles, and institutions e.g., schools, hospitals, day care centers, banks, churches, correctional facilities

The active ingredient in Pathene is effective against odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew) and algae as a static agent.
Pathene can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

- Air Filters for furnaces, air-conditioners, air purification devices, automobiles, recirculating air handling systems.
- Air filters/materials
- Aquarium filter material
- Bed sheets, blankets, and bedspreads
- Buffer pads (abrasive and polishing)
- Carpets and draperies
- Cellulose sponges
- Concrete additive for sewer pipes, manholes and concrete sewer structures; not to be used in treatment of storm drains
- Concrete additive for repair and renewal of sewer pipes and manholes and concrete sewers structures; not to be used in treatment of storm drains

- Exterior walls (such as stone, concrete, brick)
- Fiberfill for upholstery, sleeping bags, apparel, where the fiber is cotton, natural down, nylon, polyester, rayon, or wool
- Fiberglass duct board
- Fire hose fabric
- Humidifier belts
- Mattress pads and ticking
- Men's underwear and outerwear
- Non-woven disposable diapers
- Non-woven polyester
- Outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos)
- Pathene can be used in paints and coatings as an in can preservative for protection of paint film and coating film. Types of paints and coatings include: latex indoor/outdoor paints and stains, woodstains, architectural paints, lacquer and maintenance coatings, films, laminates and finishes including alkyd, urethane, enamel, epoxy, siloxaline, amino resins, textile coatings, extrusion, coatings, architectural coatings and overlays, anti-corrosion coatings, fire-resistant coatings, aliphatic coatings, vinylester and polyester coatings, gel coating, amino resins, resins used as additive mixes for cement, epoxy laminating resins, and blends and copolymers thereof;
- Polyurethane and cellulose foam for household, industrial, and institutional sponges and mops
- Polyurethane and polyethylene foam, when covered
- Polyurethane foam for packaging and cushioning in non-food contact applications
- Polyurethane foam used as a growth medium for non-food crops and plants
- Pre-moistened towelettes and tissue wipes (these do not impart pesticidal properties)
- Roofing materials – defined as shingles, roofing granules, wood shakes, felt, stone and synthetic overcoats
- Sand bags, tents, tarpaulins, sails, and ropes
- Athletic and casual socks
- Shoe insoles
- Shower curtains
- Socks comprised of nylon, nylon/orlon, cotton/nylon, linen/Lycra, acrylic/polypropylene, nylon, Lycra, wood/silk/nylon/Lycra and wool/acrylic/nylon/Lyrca
- Throw rugs Toweling made of 100 percent cotton, 100 percent polyester, and blends of the two fibers
- Toilet Tank and seat covers
- Umbrellas
- Upholstery made of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethylene, polyolefins, polyptopylene, rayon, spandex, vinyl, wool
- Vacuum cleaner bags and filters
- Vinyl paper-wallpaper for non-food contact surfaces
- Disposable wiping cloths that can be used for multiple purposes such as dusting or washing furniture, cars, walls, windows, floors, appliances, dishes, counter tops; the wiping cloths do not impart pesticide properties
- Women's hosiery

- Women's intimate apparel

DIRECTIONS FOR USE

For homeowner applications

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles or face shield) and gloves when using this product. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry. Clean surfaces prior to application.

Approved homeowner uses

The active ingredient in Pathene is effective against odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae as a static agent. Pathene can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

	Pest controlled	Dilution Rate	Method of Application
Bedsheets, blankets, bedspreads, curtains, draperies (washable only), underwear, socks, intimate apparel, hosiery, throw rugs, toweling, toilet tank covers, shower curtains, shoe insoles, outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos). Pathene can be applied to fabrics made of acetates, acrylics, cotton, fiberglass, linen, Lycra, nylon,	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	**DIP/SOAK:** Dilute Pathene in water; mix well. Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough Pathene solution to completely submerge item. Keep item in solution for 3 minutes. Remove item and wring excess liquid from treated item. For larger items (e.g. bedspreads, curtains, draperies), place in washing machine on spin cycle to aid in the removal of excess liquid. Test staining and color-fastness of fabric and carpets by treating and drying a small concealed area prior to application. Do not reuse solution after dipping/soaking. Dry treated articles before use. Substrates can be hang-dried at room temperature or at temperatures to a maximum of 160°C (320°F); (for example, in a clothes dryer). If necessary, reapply Pathene every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

orlon, polyester, polyethylene, polyolefins, polypropylene, rayon, silk, spandex, vinyl, and wool.			**SPRAY:** Dilute Pathene in water; mix well. Clean surface prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application. If necessary, reapply Pathene every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**
Air filters and air filter material for: • Furnaces, air conditioners • Air purification systems • Automobiles • Recirculating air handling systems • Vacuum cleaner filters • Aquariums	Odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae	8 oz / gallon 2 oz / quart 1 oz / pint	**SPRAY:** Dilute Pathene in water; mix well. When treating filters, remove filter from the unit. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Apply and then let stand until dry. If necessary, reapply Pathene every three months or when odor, staining and discoloration due to bacteria, mold stains, mildew stains, and algae stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**

Carpeting	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	**SPRAY:** Dilute Pathene in water; mix well. Apply to clean carpet surface. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. For rotary jet extraction cleaners and carpet steamers, add the diluted Pathene solution directly to the cleaning tank, then operate the equipment in accordance with manufacturer's instructions. Apply and then let stand until dry. Test staining and color-fastness of carpets by treating and drying a small concealed area prior to application. Pathene treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates (e.g., wool carpeting), more Pathene may be required due to absorption. Dry carpet areas and surfaces before re-entry. A fan may be used to assist in drying carpeting. Remove children and pets from treated area until completely dried. If necessary, reapply Pathene every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**
Mattress pad and mattress ticking and upholstery composed of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethylene, polyolefins, polypropylene, rayon, spandex, vinyl, wool; fiberfill to be used in upholstery, sleeping bags,	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	**SPRAY:** Dilute Pathene in water; mix well. Clean surfaces prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application. When applying to mattress pads and ticking do not soak. Remove children and pets from treated area until completely dried. If necessary, reapply

apparel, where the fiber is cotton, natural down, nylon, rayon, or wool			Pathene every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**
Tents, tarpaulins, sails, ropes.	Odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae	8 oz / gallon 2 oz / quart 1 oz / pint	**SPRAY:** Dilute Pathene in water; mix well. Clean surface prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application. If necessary, reapply Pathene every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return. **DIP/SOAK:** Dilute Pathene in water; mix well. Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough Pathene solution to completely submerge item. Keep item in solution for 3 minutes. Remove item and wring excess liquid. Test staining and color-fastness of fabric and carpets by treating and drying a small concealed area prior to application. Do not reuse solution after dipping/soaking. Dry treated articles before use. Substrates can be hang-dried at room temperature or at temperatures to a maximum of 160°C (320°F); (for example, in a clothes dryer). If necessary, reapply Pathene every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**
Roofing materials	Odor-causing	8 oz / gallon	**SPRAY:** Dilute Pathene in water; mix

(such as shingles, roofing granules, wood shakes, felt, stone, synthetic overcoats) Exterior walls (such as stone, concrete, brick)	bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae	2 oz / quart 1 oz / pint	well. Make sure the roof or wall is clean prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 6"-12" from the surface, making sure the surface is completely covered. After applying the diluted solution of Pathene, let stand until dry. Pathene treats approximately 200 square feet of roofing or wall per diluted gallon of water. If necessary, reapply Pathene every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**
Buffer pads (polishing and abrasive), polyurethane for household sponges and mops, vacuum cleaner bags, umbrellas, casual shoes, athletic shoes	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	**SPRAY:** Dilute Pathene in water; mix well. Clean surface prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. If necessary, reapply Pathene every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**
Tubs, glazed tile, vanity tops, shower curtains, shower stalls (areas), sinks, washable walls, wall paper for non-food contact, floors, window sills, cabinets, garbage cans, appliances, refrigerators (exterior), fiberglass, formica, glazed	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	**SPRAY:** Dilute Pathene in water; mix well. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. If necessary, reapply Pathene every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

tiles, glazed porcelain, synthetic marble, plastic, vinyl			

MOLD, MILDEW, ODOR PROTECTOR AND INHIBITOR Pathene is an antimicrobial agent effective against odor-causing bacteria.
Pathene is an antimicrobial agent effective against bacteria which cause staining and discoloration.
Pathene is an antimicrobial agent effective against fungi (mold and mildew).
Pathene is an antimicrobial agent effective against algae.
Pathene, and antimicrobial agent, controls the source of odors on surfaces in the home, in the bathroom, in the kitchen. (Bacteriostatic, fungistatic (mold and mildew), algaestatic.
Pathene, and antimicrobial agent, inhibits smelly odors caused by mold and mildew that can grow even in the cleanest of homes.
Pathene, and antimicrobial agent, inhibits the growth of odor causing bacteria.
Effective on hard non-porous washable bathroom and kitchen surfaces and fixtures around the home.
Effective on modern hard non-porous washable surfaces like fiberglass, glazed porcelain, Formica®, stainless steel, synthetic marble.
Imparts microbiostatic properties.
Use on carpet and upholstery to inhibit odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew).
Unscented.
Use on carpet and upholstery to inhibit the growth of odor-causing bacteria.
Use on carpet and upholstery to inhibit the growth of bacteria which cause staining and discoloration.
Use on carpet and upholstery to inhibit the growth of fungi (mold and mildew).
Use on carpet and upholstery to inhibit the growth of odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.
Provides and invisible microbiostatic coating to inhibit the growth of odor-causing bacteria.
Provides and invisible microbiostatic coating to inhibit the growth of bacteria which cause staining and discoloration.
Provides and invisible microbiostatic coating to inhibit the growth of fungi (mold and mildew).
Provides and invisible microbiostatic coating to inhibit the growth of algae.
Provides and invisible microbiostatic coating to inhibit the growth of odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.
Prevents deterioration caused by bacteria and fungi (mold and mildew).
Inhibits deterioration caused by bacteria.
Resists development of microbial odors.
Resists development of stains and discoloration due to bacteria.
Resists development of stains due to fungi (mold and mildew).
Resists stains due to algae.
Resists development of microbial odors, stains and discoloration due to bacteria, fungi (mold and mildew), and algae.

Provides/creates an invisible barrier to inhibit the growth of odor-causing bacteria.
Provides/creates an invisible barrier to inhibit the growth of bacteria which cause staining and discoloration.
Provides/creates an invisible barrier to inhibit the growth of fungi (mold and mildew).
Provides/creates an invisible barrier to inhibit the growth of algae.
Provides/creates an invisible barrier to inhibit the growth of odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.

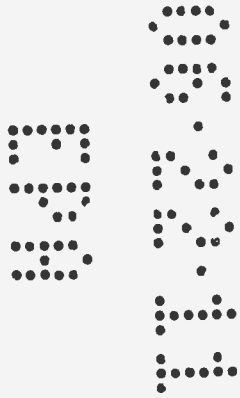
STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal.

Pesticide Storage: Store in original, tightly closed containers below 30°C (86°F) and above 0°C (32°F) in a secure area inaccessible to children and away from food or feed.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **[For homeowner use the statement will read:** "Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site."]

Container Disposal: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incinerate, or, if allowed by state and local authorities, dispose of by burning. If burned, stay out of smoke. **[For homeowners use statement will read:** "Container Disposal: Securely wrap original container in several layers of newspaper and discard in trash."]



KRK Consulting LLC
5807 Churchill Way
Medina, OH 44256
Tel: 440-263-7305
E-mail: kevinkutcel@gmail.com

June 17, 2011

US EPA (NOTIF)
Office of Pesticide Programs
Room S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, VA 22202-4501

Subject: PR Notice 1998-10 Notification for ABN (EPA No. 87583-2)

Please accept the attached 3 copies of the revised label for Reg. No. 87583-2 with the alternate brand name "Bio-Protect 500" per PR Notice 1998-10.

Attached is EPA Form 8570-1 regarding this notification as required in PR Notice 1998-10. This notification is consistent with the guidance in PR Notice 1998-10 and the requirements of EPA's regulations at 40 CFR 156.46, 156.140, 156.144, 156,146 and 156.156 and no other changes have been made to the labeling or the Confidential Statement of Formula for this product. I understand this it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if the amended label is not consistent with the requirements of PR Notice 98-10 and CFR 156.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Please note that KRK Consulting LLC is the authorized agent handling all correspondence for PureShield Inc. and therefore all responses should be directed to the contact information on the letterhead above.

Best Regards,

Kevin R. Kutcel,
Agent for PureShield Inc.

Please read instructions on reverse before completing form. Form Approved, OMB No. 2070-0060

Print Form

United States
Environmental Protection Agency
Washington, DC 20460

[ ] Registration
[ ] Amendment
[X] Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number
PureShield Inc. / 87583-2

2. EPA Product Manager
Velma Noble

3. Proposed Classification
[X] None [ ] Restricted

4. Company/Product (Name)
PureShield Inc. / Bio-Protect AM500

PM#
31

5. Name and Address of Applicant *(Include ZIP Code)*
PureShield Inc.
1445 Jupiter Park Drive, #11
Jupiter, FL 33458

[ ] *Check if this is a new address*

6. **Expedited Review.** In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to:
EPA Reg. No. _____
Product Name _____

Section - II

[ ] Amendment - Explain below.
[ ] Resubmission in response to Agency letter dated _____
[X] Notification - Explain below.
[ ] Final printed labels in response to Agency letter dated _____
[ ] "Me Too" Application.
[ ] Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)
Please accept the alternate brand name for Reg. No. 87583-2 of "Bio-Protect 500" per PR Notice 98-10. Please see attached cover letter for required compliance statement regarding this PR Notice.

Section - III

1. Material This Product Will Be Packaged In:

Child-Resistant Packaging	Unit Packaging	Water Soluble Packaging	2. Type of Container
[ ] Yes* [X] No	[ ] Yes [X] No	[ ] Yes [X] No	[ ] Metal [X] Plastic [ ] Glass [ ] Paper [ ] Other (Specify) _____
* *Certification must be submitted*	If "Yes" Unit Packaging wgt. / No. per container	If "Yes" Package wgt / No. per container	

3. Location of Net Contents Information
[X] Label [ ] Container

4. Size(s) Retail Container
2, 4, 8, 16, 20, 22, 36 oz
1, 5, 55, 150, 300 gallons

5. Location of Label Directions
[X] On Label
[ ] On Labeling accompanying product

6. Manner in Which Label is Affixed to Product
[X] Lithograph
[ ] Paper glued
[ ] Stenciled
[ ] Other _____

Section - IV

1. Contact Point *(Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)*

Name	Title	Telephone No. (Include Area Code)
Kevin Kutcel	Consultant	440-263-7305

Certification

I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

6. Date Application Received (Stamped)

2. Signature	3. Title
Kevin Kutcel	Consultant
4. Typed Name	**5. Date**
Kevin Kutcel	6/17/2011

EPA Form 8570-1 (Rev. 8-94) Previous editions are obsolete. White - EPA File Copy (original) Yellow - Applicant Copy

DATA PACKAGE BEAN SHEET

Date: 24-May-2011

Decision #: 449558
DP #: (390059)
NON PRIA
Parent DP #:
Submission #: 896095

* * * Registration Information * * *

Registration: 87583-2 - BIO-PROTECT AM500
Company: 87583 - PURESHIELD INC
Risk Manager: RM 31 - Velma Noble - (703) 308-6233 Room# PY1 S-8855
Risk Manager Reviewer: Emilia Oiguenblik EOIGUENB
Sent Date: _____ Calculated Due Date: 15-Aug-2011 Edited Due Date: _____
OK
Type of Registration: Product Registration - Section 3
Action Desc: (362) FORMULA CHANGE;TECHNICAL;
Ingredients: 107401, 1-Octadecanaminium, N,N-dimethyl-N-(3-(trimethoxysilyl)propyl)-, chloride(5%)

* * * Data Package Information * * *

Expedite: ○ Yes ● No Date Sent: 24-May-2011 Due Back: _____
DP Ingredient: 107401, 1-Octadecanaminium, N,N-dimethyl-N-(3-(trimethoxysilyl)propyl)-, chloride

DP Title: _____
CSF Included: ○ Yes ● No Label Included: ○ Yes ● No Parent DP #: _____

90/60

Assigned To	Date In	Date Out	
Organization: AD / PSB	5/24/11		Last Possible Science Due Date: 01-Jul-2011
Team Name: CTT	5/24/11		Science Due Date: 7/8/11
Reviewer Name: Lynette	5/24/11		Sub Data Package Due Date: 7/22/11
Contractor Name:			

* * * Studies Sent for Review * * *

No Studies

* * * Additional Data Package for this Decision * * *

No Additional Data Packages

* * * Data Package Instructions * * *

Registrant has submitted CSF to be reviewed.

Label & jacket

RECEIVED 5/24/11

Form Approved OMB Nos. 2070-0060; 2070-0057; 2070-0107; 2070-0122; 2070-0164

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
1200 Pennsylvania Avenue, N.W.
WASHINGTON, D.C. 20460

Certification with Respect to Citation of Data

Applicant's/Registrant's Name, Address, and Telephone Number PureShield Inc., 1445 Jupiter Park, Suite 1, Jupiter, FL 33458 561-747-5758	EPA Registration Number/File Symbol 87583-2
Active Ingredient(s) and/or representative test compound(s) 3-(Trimethoxysilyl)propyl dimethyl octadecyl ammonium chloride	Date 5/13/11
General Use Pattern(s) (list all those claimed for this product using 40 CFR Part 158) antimicrobial	Product Name Bio-Protect AM500

NOTE: If your product is a 100% repackaging of another purchased EPA-registered product labeled for all the same uses on your label, you do not need to submit this form. You must submit the Formulator's Exemption Statement (EPA Form 8570-27).

☐ I am responding to a Data-Call-In Notice, and have included with this form a list of companies sent offers of compensation (the Data Matrix form should be used for this purpose).

SECTION I: METHOD OF DATA SUPPORT (Check one method only)

☐ I am using the cite-all method of support, and have included with this form a list of companies sent offers of compensation (the Data Matrix form should be used for this purpose).	☑ I am using the selective method of support (or cite-all option under the selective method), and have included with this form a completed list of data requirements (the Data Matrix form must be used).

SECTION II: GENERAL OFFER TO PAY

[Required if using the cite-all method or when using the cite-all option under the selective method to satisfy one or more data requirements]

☑ I hereby offer and agree to pay compensation, to other persons, with regard to the approval of this application, to the extent required by FIFRA.

SECTION III: CERTIFICATION

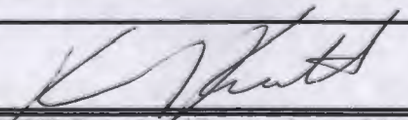
I certify that this application for registration, this form for reregistration, or this Data-Call-In response is supported by all data submitted or cited in the application for registration, the form for reregistration, or the Data-Call-In response. In addition, if the cite-all option or cite-all option under the selective method is indicated in Section I, this application is supported by all data in the Agency's files that (1) concern the properties or effects of this product or an identical or substantially similar product, or one or more of the ingredients in this product; and (2) is a type of data that would be required to be submitted under the data requirements in effect on the date of approval of this application if the application sought the initial registration of a product of identical or similar composition and uses .

I certify that for each exclusive use study cited in support of this registration or reregistration, that I am the original data submitter or that I have obtained the written permission of the original data submitter to cite that study.

I certify that for each study cited in support of this registration or reregistration that is not an exclusive use study, either: (a) I am the original data submitter; (b) I have obtained the permission of the original data submitter to use the study in support of this application; (c) all periods of eligibility for compensation have expired for the study; (d) the study is in the public literature; or (e) I have notified in writing the company that submitted the study and have offered (I) to pay compensation to the extent required by sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA; and (ii) to commence negotiations to determine the amount and terms of compensation, if any, to be paid for the use of the study.

I certify that in all instances where an offer of compensation is required, copies of all offers to pay compensation and evidence of their delivery in accordance with sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA are available and will be submitted to the Agency upon request. Should I fail to produce such evidence to the Agency upon request, I understand that the Agency may initiate action to deny, cancel or suspend the registration of my product in conformity with FIFRA.

I certify that the statements I have made on this form and all attachments to it are true, accurate, and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

Signature 	Date 5/13/11	Typed or Printed Name and Title Kevin R. Kutcel - Consultant

EPA Form 8570-34 (12-2003) Electronic and Paper versions available. Submit only Paper version.

Form Approved OMB No. 2070-0060

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M Street, S.W.
WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX

Date 5/13/11	EPA Reg No./File Symbol 87583-2	Page 1 of
Applicant's/Registrant's Name & Address reShield Inc., 1445 Jupiter Park, Suite 11, Jupiter, FL 33458	Product Bio-Protect AM500	

Ingredient 3-(trimethyloxysilyl) propyldimethyloctadecyl ammonium chloride

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
	BioShield Technologies, Inc. (1997) Product Identity and	44279401	Inhold LLC	per	cite-all
	Composition of AM 500 I and AM 500. 14 p.				
	BioShield Technologies, Inc. (1997) Description of	44279402	Inhold LLC	per	cite-all
	Beginning Materials and the Manufacturing Process of				
	AM 500 I and AM 500. Unpublished study. 24 p.				
	Berkner, J. (1997) Discussion of Formation of Impurities	44279403	Inhold LLC	per	cite-all
	in AM 500 I and AM 500. 4 p.				
	Wells, D. (1997) AM500--Conducting Product Chemistry	44279404	Inhold LLC	per	cite-all
	Studies for an End-Use Product. 44 p. (OPPTS 830.6302,				
	830.6303, 830.6304, 830.7300,830.7100, & 830.7000)				
	Jellinek, Schwartz & Connolly, Inc. (1997) Preliminary	44351901	Inhold LLC	per	cite-all
	Analysis, Certification of Ingredient Limits, and Analytical				
	Method for Enforcement of Limits for BioShield AM 500				
	and BioShield AM 500 I. 13 p.				

Signature	Name and Title	Date
	Kevin Kutcel - Consultant	May 13, 2011

Form Approved OMB No. 2070-0060

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M Street, S.W.
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DATA MATRIX

Date 5/13/11	EPA Reg No./File Symbol 87583-2	Page 1 of
Applicant's/Registrant's Name & Address reShield Inc., 1445 Jupiter Park, Suite 11, Jupiter, FL 33458	Product Bio-Protect AM500	

Ingredient 3-(trimethyloxysilyl) propyldimethyloctadecyl ammonium chloride

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
[redacted]			Inhold LLC	per	
			Inhold LLC	per	
			Inhold LLC	per	
			Inhold LLC	per	
			Inhold LLC	per	

Signature	Name and Title	Date
	Kevin Kutcel - Consultant	May 13, 2011

Please read instructions on reverse before comp[illegible] form. Form Approved. O[illegible]No. 2070-0060

Print Form

EPA

United States
Environmental Protection Agency
Washington, DC 20460

[ ] Registration
[X] Amendment
[ ] Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number	2. EPA Product Manager	3. Proposed Classification
PureShield Inc. / 87583-2	Velma Noble	[X] None [ ] Restricted
4. Company/Product (Name)	**PM#**	
PureShield Inc. / Bio-Protect AM500	31	

5. Name and Address of Applicant *(Include ZIP Code)*

PureShield Inc.
1445 Jupiter Park Drive, #11
Jupiter, FL 33458

[X] *Check if this is a new address*

6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to:

EPA Reg. No. _____

Product Name _____

Section - II

[ ] Amendment - Explain below.
[ ] Resubmission in response to Agency letter dated _____
[ ] Notification - Explain below.
[ ] Final printed labels in response to Agency letter dated _____
[ ] "Me Too" Application.
[ ] Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Please accept the proposed alternate CSF for Reg. No. 87583-2.

Section - III

1. Material This Product Will Be Packaged In:

Child-Resistant Packaging	Unit Packaging	Water Soluble Packaging	2. Type of Container
[ ] Yes* [X] No	[ ] Yes [X] No	[ ] Yes [X] No	[ ] Metal [X] Plastic [ ] Glass [ ] Paper [ ] Other (Specify) _____
* *Certification must be submitted*	If "Yes" Unit Packaging wgt. / No. per container	If "Yes" Package wgt / No. per container	

3. Location of Net Contents Information	4. Size(s) Retail Container	5. Location of Label Directions
[X] Label [ ] Container		[X] On Label [ ] On Labeling accompanying product

6. Manner in Which Label is Affixed to Product [X] Lithograph / Paper glued / Stenciled [ ] Other _____

Section - IV

1. Contact Point *(Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)*

Name	Title	Telephone No. (Include Area Code)
Kevin Kutcel	Consultant	440-263-7305

Certification

I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

6. Date Application Received (Stamped)

2. Signature	3. Title	
[signature]	Consultant	
4. Typed Name	**5. Date**	
Kevin Kutcel	5/12/2011	

EPA Form 8570-1 (Rev. 8-94) Previous editions are obsolete. White - EPA File Copy (original) Yellow - Applicant Copy

Material Sent for Data Extraction

Reg # 87583-2

Description: _____

☑ Material(s) Sent to Data Extraction Contractors:

- ☐ New Stamped Label Dated _____
- ☐ Notification Dated _____
- ☑ New CSF(s) Dated 3.1.11
- ☐ Other: _____

☑ Decision #: 449558

☐ Other Action/Comments: _____

_____

Attach this coversheet to the top of the material or jacket. It must be well organized and clipped together, NOT STAPLED. Then give the material with this coversheet to staff in the Information Services Center (Room S-4900).

Reviewer: E. Orquenbekov

Phone: 347-0199 Division: AD

Date: _____

Created February 3, 2011

BIO-PROTECT AM500

A Silicone Quaternary Ammonium Salt

MICROBIOSTATIC AGENT *
A Silicone Quaternary Ammonium Salt

Active Ingredient: 3-(trimethoxysilyl) propyldimethyloctadecyl ammonium chloride.....5.0%
Other Ingredients: 95.0%
TOTAL INGREDIENTS: 100.0%

KEEP OUT OF REACH OF CHILDREN

WARNING

EPA Reg. No. 87583-2 EPA EST. xxxxx-xx-xxxx

NET CONTENTS: 2, 4, 8, 16, 20, 22, or 36 fluid oz.; 1, 5, 55, 150, or 300 gal.

FIRST AID
IF IN EYES: • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. • Call poison control center or doctor for treatment advice.
IF INHALED: • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
IF ON SKIN: • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
IF SWALLOWED: • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.

*A microbiostatic agent is an agent that inhibits the growth of odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.
This product does not protect users or others against food-borne or disease-causing bacteria.

PURESHIELD INC , 1445 Jupiter Park Drive # 11, Jupiter, Florida 33458

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING: Causes substantial but temporary eye injury. Harmful if absorbed through skin or inhaled. Do not get in eyes. Avoid contact with skin and avoid breathing vapor.
Wear protective eyewear (goggles or face shield). Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

ENVIRONMENTAL HAZARDS

Commercial and industrial uses: This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge
Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

De-activation may be required during clean up if a spill occurs. De-activation of AM500 can be achieved by the addition of anionic surfactant (such as soap, sulfonates, sulfates) in quantity equivalent to that of AM500.

Homeowner use: This pesticide is toxic to fish. Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of pesticide.

DIRECTIONS FOR USE

Approved commercial and Industrial Applications

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles or face shield) and gloves when using this product. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry.

Prepare solution by simply adding AM500 to solvent and stirring. AM500 can also be diluted by adding 0.2 to 2 fluid ounces of AM500 per cup (3.2 to 32 fluid ounces of AM500 per gallon) of water or other solvents (for example, alcohol and ketones) and than applied to organic or inorganic substrates by brushing, dipping, padding, soaking, spraying, fogging or by using foam finishing techniques to give a final treatment of 0.1 to 1.0 percent by weight active ingredient.

Dry substrates at temperatures from ambient to a maximum of 160° C (320° F) to effect complete condensation of silanol groups and to remove water, solvents and/or traces of methanol from hydrolysis. Optimum application and drying conditions, such as time and temperature, should be determined for each application before use. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

AM500 when used as a concrete additive is added directly concrete preparation. Use 6 fluid ounces AM500 per cubic feet of concrete. Add to water before addition of concrete. Addition of AM500 reduces deterioration of sewer pipes and manholes by inhibiting microbiologically induced corrosion.

AM500 when used as an additive for paints and coatings is added directly during preparation of the paint or coating. Use 5 pounds of AM500 per 100 pounds of paint or coating (or 1 pound AM500 per 20 pounds paint/coating). The addition of the antimicrobial agent (AM500) to paints at the point of manufacture preserves the paint in the can as well as the dried paint film. AM500 inhabits the growth of odor causing bacteria, bacteria which causes staining and discoloration, fungi (mold and mildew), and algae on the surface of dried films and coatings.

Approved commercial and industrial applications

The active ingredient in AM500 is effective against odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew) and algae as a static agent. AM500 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

- Air Filters for furnaces, air-conditioners, air purification devices, automobiles, recirculating air handling systems.
- Air filters/materials
- Aquarium filter material
- Bed sheets, blankets, and bedspreads
- Buffer pads (abrasive and polishing)
- Carpets and draperies
- Cellulose sponges
- Concrete additive for sewer pipes, manholes and concrete sewer structures; not to be used in treatment of storm drains
- Concrete additive for repair and renewal of sewer pipes and manholes and concrete sewers structures; not to be used in treatment of storm drains
- Exterior walls (such as stone, concrete, brick)
- Fiberfill for upholstery, sleeping bags, apparel, where the fiber is cotton, natural down, nylon, polyester, rayon, or wool
- Fiberglass duct board
- Fire hose fabric
- Humidifier belts
- Mattress pads and ticking
- Men's underwear and outerwear
- Non-woven disposable diapers
- Non-woven polyester
- Outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos)
- AM500 can be used in paints and coatings as an in-can preservative for protection of paint film and coating film. Types of paints and coatings include: latex indoor/outdoor paints and stains, woodstains, architectural paints, lacquer and maintenance coatings,

films, laminates and finishes including alkyd, urethane, enamel, epoxy, siloxaline, amino resins, textile coatings, extrusion, coatings, architectural coatings and overlays, anti-corrosion coatings, fire-resistant coatings, aliphatic coatings, vinylester and polyester coatings, gel coating, amino resins, resins used as additive mixes for cement, epoxy laminating resins, and blends and copolymers thereof;

- Polyurethane and cellulose foam for household, industrial, and institutional sponges and mops
- Polyurethane and polyethylene foam, when covered
- Polyurethane foam for packaging and cushioning in non-food contact applications
- Polyurethane foam used as a growth medium for non-food crops and plants
- Pre-moistened towelettes and tissue wipes (these do not impart pesticidal properties)
- Roofing materials – defined as shingles, roofing granules, wood shakes, felt, stone and synthetic overcoats
- Sand bags, tents, tarpaulins, sails, and ropes
- Athletic and casual socks
- Shoe insoles
- Shower curtains
- Socks comprised of nylon, nylon/orlon, cotton/nylon, linen/Lycra, acrylic/polypropylene, nylon, Lycra, wood/silk/nylon/Lycra and wool/acrylic/nylon/Lyrca
- Throw rugs Toweling made of 100 percent cotton, 100 percent polyester, and blends of the two fibers
- Toilet Tank and seat covers
- Umbrellas
- Upholstery made of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethyiene, polyolefins, polyptopylene, rayon, spandex, vinyl, wool
- Vacuum cleaner bags and filters
- Vinyl paper-wallpaper for non-food contact surfaces
- Disposable wiping cloths that can be used for multiple purposes such as dusting or washing furniture, cars, walls, windows, floors, appliances, dishes, counter tops; the wiping cloths do not impart pesticide properties
- Woman's hosiery
- Woman's intimate apparel

DIRECTIONS FOR USE

Approved commercial appliances used in homes, offices, automobiles and institutions e.g., schools, hospitals, daycare centers, churches, correctional facilities

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles and face shield) and gloves when using this product. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry. Clean surfaces prior to application.

For Pump Spray Application: Dilute 8 ounces of AM500 per gallon of water (2 oz. per quart; 1oz. per pint). Using pump sprayer, spray entire area 4"-6"s from the surface making sure the surface is completely covered. Apply and then let stand until dry or let stand 3 minutes and wipe

dry with cloth of sponge. If spotting occurs, wipe with moist cloth or sponge. Test for staining and color-fastness of fabrics and carpets by treating and drying a small, concealed area prior to application. AM500 treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates, more AM500 may be required due to absorption. A fan may be used to assist in drying carpet.

For Commercial Spray Application: For commercial application equipment (i.e. carpet/upholstery steamers, rotary jet extraction cleaners, and pressure sprayers) dilute 8 ounces of AM500 per gallon of water (2oz. per quart; 1oz. per pint); mix well. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test for staining and color-fastness of fabrics and carpets by treating and drying a small, concealed area prior to application. . AM500 treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates, more AM500 may be required due to absorption. Dry carpet areas and surfaces before re-entry and dry articles before use. A fan may be used to assist in drying carpet.

For Dipping/Soaking Application: Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough AM500 solution to completely submerge item. Dilute 8 ounces of AM500 per gallon of water (2oz. per quart; 1oz. per pint); mix well. Completely submerge item in solution for 3 minutes. Remove item and dry. Test for staining and color-fastness of fabrics by treating and drying a small, concealed area prior to application. Do not reuse solution after dipping/soaking.

The substrate can be dried at room temperature or at temperatures to a maximum of 160°C (320°F), for example in a clothes dryer. Remove excess liquid before attempting to dry in a clothes dryer. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

Approved commercial applications in homes, offices, automobiles, and institutions e.g., schools, hospitals, day care centers, banks, churches, correctional facilities

The active ingredient in AM500 is effective against odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew) and algae as a static agent.
AM500 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

- Air Filters for furnaces, air-conditioners, air purification devices, automobiles, recirculating air handling systems.
- Air filters/materials
- Aquarium filter material
- Bed sheets, blankets, and bedspreads
- Buffer pads (abrasive and polishing)
- Carpets and draperies
- Cellulose sponges
- Exterior walls (such as stone, concrete, brick)
- Fiberfill for upholstery, sleeping bags, apparel, where the fiber is cotton, natural down, nylon, polyester, rayon, or wool
- Fiberglass duct board

- Fire hose fabric
- Humidifier belts
- Mattress pads and ticking
- Men's underwear and outerwear
- Non-woven polyester
- Outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos)
- Polyurethane and cellulose foam for household, industrial, and institutional sponges and mops
- Polyurethane and polyethylene foam, when covered
- Polyurethane foam for packaging and cushioning in non-food contact applications
- Polyurethane foam used as a growth medium for non-food crops and plants
- Roofing materials – defined as shingles, roofing granules, wood shakes, felt, stone and synthetic overcoats
- Sand bags, tents, tarpaulins, sails, and ropes
- Athletic and casual socks
- Shoe insoles
- Shower curtains
- Socks comprised of nylon, nylon/orlon, cotton/nylon, linen/Lycra, acrylic/polypropylene, nylon, Lycra, wood/silk/nylon/Lycra and wool/acrylic/nylon/Lyrca
- Throw rugs Toweling made of 100 percent cotton, 100 percent polyester, and blends of the two fibers
- Toilet Tank and seat covers
- Umbrellas
- Upholstery made of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethyiene, polyolefins, polyptopylene, rayon, spandex, vinyl, wool
- Vacuum cleaner bags and filters
- Vinyl paper-wallpaper for non-food contact surfaces
- Disposable wiping cloths that can be used for multiple purposes such as dusting or washing furniture, cars, walls, windows, floors, appliances, dishes, counter tops; the wiping cloths do not impart pesticide properties
- Women's hosiery
- Women's intimate apparel

DIRECTIONS FOR USE

For homeowner applications

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles or face shield) and gloves when using this product. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry. Clean surfaces prior to application.

Approved homeowner uses

The active ingredient in AM500 is effective against odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae as a static agent. AM500 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

	Pest controlled	Dilution Rate	Method of Application
Bedsheets, blankets, bedspreads, curtains, draperies (washable only), underwear, socks, intimate apparel, hosiery, throw rugs, toweling, toilet tank covers, shower curtains, shoe insoles, outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos). AM500 can be applied to fabrics made of acetates, acrylics, cotton, fiberglass, linen, Lycra, nylon, orlon, polyester, polyethylene, polyolefins, polypropylene, rayon, silk, spandex, vinyl, and wool.	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	**DIP/SOAK:** Dilute AM500 in water; mix well. Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough AM500 solution to completely submerge item. Keep item in solution for 3 minutes. Remove item and wring excess liquid from treated item. For larger items (e.g. bedspreads, curtains, draperies), place in washing machine on spin cycle to aid in the removal of excess liquid. Test staining and color-fastness of fabric and carpets by treating and drying a small concealed area prior to application. Do not reuse solution after dipping/soaking. Dry treated articles before use. Substrates can be hang-dried at room temperature or at temperatures to a maximum of 160°C (320°F); (for example, in a clothes dryer). If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return. **SPRAY:** Dilute AM500 in water; mix well. Clean surface prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application. If necessary, reapply AM500 every three months or when odor, staining and discoloration due

			to bacteria, mold stains, and mildew stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**
Air filters and air filter material for: • Furnaces, air conditioners • Air purification systems • Automobiles • Recirculating air handling systems • Vacuum cleaner filters • Aquariums	Odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae	8 oz / gallon 2 oz / quart 1 oz / pint	**SPRAY:** Dilute AM500 in water; mix well. When treating filters, remove filter from the unit. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Apply and then let stand until dry. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, mildew stains, and algae stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**

Carpeting	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	**SPRAY:** Dilute AM500 in water; mix well. Apply to clean carpet surface. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. For rotary jet extraction cleaners and carpet steamers, add the diluted AM500 solution directly to the cleaning tank, then operate the equipment in accordance with manufacturer's instructions. Apply and then let stand until dry. Test staining and color-fastness of carpets by treating and drying a small concealed area prior to application. AM500 treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates (e.g., wool carpeting), more AM500 may be required due to absorption. Dry carpet areas and surfaces before re-entry. A fan may be used to assist in drying carpeting. Remove children and pets from treated area until completely dried. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**
Mattress pad and mattress ticking and upholstery composed of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethylene, polyolefins, polypropylene, rayon, spandex, vinyl, wool; fiberfill to be used in upholstery, sleeping bags,	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	**SPRAY:** Dilute AM500 in water; mix well. Clean surfaces prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application. When applying to mattress pads and ticking do not soak. Remove children and pets from treated area until completely dried. If necessary, reapply

apparel, where the fiber is cotton, natural down, nylon, rayon, or wool			AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**
Tents, tarpaulins, sails, ropes.	Odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae	8 oz / gallon 2 oz / quart 1 oz / pint	**SPRAY:** Dilute AM500 in water; mix well. Clean surface prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return. **DIP/SOAK:** Dilute AM500 in water; mix well. Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough AM500 solution to completely submerge item. Keep item in solution for 3 minutes. Remove item and wring excess liquid. Test staining and color-fastness of fabric and carpets by treating and drying a small concealed area prior to application. Do not reuse solution after dipping/soaking. Dry treated articles before use. Substrates can be hang-dried at room temperature or at temperatures to a maximum of 160°C (320°F); (for example, in a clothes dryer). If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**
Roofing materials	Odor-causing	8 oz / gallon	**SPRAY:** Dilute AM500 in water; mix

(such as shingles, roofing granules, wood shakes, felt, stone, synthetic overcoats) Exterior walls (such as stone, concrete, brick)	bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae	2 oz / quart 1 oz / pint	well. Make sure the roof or wall is clean prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 6"-12" from the surface, making sure the surface is completely covered. After applying the diluted solution of AM500, let stand until dry. AM500 treats approximately 200 square feet of roofing or wall per diluted gallon of water. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**
Buffer pads (polishing and abrasive), polyurethane for household sponges and mops, vacuum cleaner bags, umbrellas, casual shoes, athletic shoes	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	**SPRAY:** Dilute AM500 in water; mix well. Clean surface prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**
Tubs, glazed tile, vanity tops, shower curtains, shower stalls (areas), sinks, washable walls, wall paper for non-food contact, floors, window sills, cabinets, garbage cans, appliances, refrigerators (exterior), fiberglass, formica, glazed	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	**SPRAY:** Dilute AM500 in water; mix well. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

tiles, glazed porcelain, synthetic marble, plastic, vinyl			

MOLD, MILDEW, ODOR PROTECTOR AND INHIBITOR AM500 is an antimicrobial agent effective against odor-causing bacteria.
AM500 is an antimicrobial agent effective against bacteria which cause staining and discoloration.
AM500 is an antimicrobial agent effective against fungi (mold and mildew).
AM500 is an antimicrobial agent effective against algae.
AM500, and antimicrobial agent, controls the source of odors on surfaces in the home, in the bathroom, in the kitchen. (Bacteriostatic, fungistatic (mold and mildew), algaestatic.
AM500, and antimicrobial agent, inhibits smelly odors caused by mold and mildew that can grow even in the cleanest of homes.
AM500, and antimicrobial agent, inhibits the growth of odor causing bacteria.
Effective on hard non-porous washable bathroom and kitchen surfaces and fixtures around the home.
Effective on modern hard non-porous washable surfaces like fiberglass, glazed porcelain, Formica®, stainless steel, synthetic marble.
Imparts microbiostatic properties.
Use on carpet and upholstery to inhibit odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew).
Unscented.
Use on carpet and upholstery to inhibit the growth of odor-causing bacteria.
Use on carpet and upholstery to inhibit the growth of bacteria which cause staining and discoloration.
Use on carpet and upholstery to inhibit the growth of fungi (mold and mildew).
Use on carpet and upholstery to inhibit the growth of odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.
Provides and invisible microbiostatic coating to inhibit the growth of odor-causing bacteria.
Provides and invisible microbiostatic coating to inhibit the growth of bacteria which cause staining and discoloration.
Provides and invisible microbiostatic coating to inhibit the growth of fungi (mold and mildew).
Provides and invisible microbiostatic coating to inhibit the growth of algae.
Provides and invisible microbiostatic coating to inhibit the growth of odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.
Prevents deterioration caused by bacteria and fungi (mold and mildew).
Inhibits deterioration caused by bacteria.
Resists development of microbial odors.
Resists development of stains and discoloration due to bacteria.
Resists development of stains due to fungi (mold and mildew).
Resists stains due to algae.
Resists development of microbial odors, stains and discoloration due to bacteria, fungi (mold and mildew), and algae.

Provides/creates an invisible barrier to inhibit the growth of odor-causing bacteria.
Provides/creates an invisible barrier to inhibit the growth of bacteria which cause staining and discoloration.
Provides/creates an invisible barrier to inhibit the growth of fungi (mold and mildew).
Provides/creates an invisible barrier to inhibit the growth of algae.
Provides/creates an invisible barrier to inhibit the growth of odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal.

Pesticide Storage: Store in original, tightly closed containers below 30°C (86°F) and above 0°C (32°F) in a secure area inaccessible to children and away from food or feed.

For Residential Use
Container Disposal: Nonrefillable container. Do not reuse or refill this container. Securely wrap original container in several layers of newspaper and discard in trash or offer for recycling if available.

Nonresidential Use (Containers larger than 5 gallons)
Container Disposal: Nonrefillable container. Do not reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Dispose of rinsate as pesticide waste. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.

Pureshield, Inc.

February 10, 2011

Velma Noble, Product Manager, Team 31
U.S. Environmental Protection Agency
Office of Pesticide Programs
Antimicrobials Division (7501P)
1200 Pennsylvania Ave. NW
Washington, D.C. 20460

Re: Appointment of AgCens LLC and its President, Phil Hutton, as an authorized representative for Pureshield, Inc.

To Whom It May Concern,

This letter will serve as written notification that AgCens LLC and its President, Phil Hutton, have been appointed as an authorized representative of Pureshield, Inc. regarding applications for Bio-Protect AM500 (EPA Reg. Number: 87583-2) and Bio-Protect 7200 (EPA Reg. Number: 87583-1) to the Environmental Protection Agency.

Signed,

Joe Raich
President

1445 Jupiter Park Dr.
Suite 11
Jupiter, FL 33458

PHONE (561) 747-5758
FAX (561) 747-5191
E-MAIL info@AM500.com
WEB SITE http://www.AM500.com

Please read instructions on reverse before completing form. Form Approved. OMB No. 2070-0060

Print Form

United States Environmental Protection Agency Washington, DC 20460

- [ ] Registration
- [ ] Amendment
- [x] Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number	2. EPA Product Manager	3. Proposed Classification
PureShield Inc. / 87583-2	Velma Noble	[x] None [ ] Restricted
4. Company/Product (Name)	**PM#**	
PureShield Inc. / Bio-Protect AM500	31	

5. Name and Address of Applicant *(Include ZIP Code)*

PureShield Inc.
1445 Jupiter Park Drive, #11
Jupiter, FL 33458

[x] *Check if this is a new address*

6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to:

EPA Reg. No. _____

Product Name _____

Section - II

- [ ] Amendment - Explain below.
- [ ] Resubmission in response to Agency letter dated _____
- [ ] Notification - Explain below.
- [x] Final printed labels in response to Agency letter dated 9/7/2010
- [ ] "Me Too" Application.
- [ ] Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Please accept three (3) copies of final printed label for Reg. No. 87583-2 per instructions given on stamped label dated September 7, 2010.

Section - III

1. Material This Product Will Be Packaged In:

Child-Resistant Packaging	Unit Packaging	Water Soluble Packaging	2. Type of Container
[ ] Yes* [x] No	[ ] Yes [x] No	[ ] Yes [x] No	[ ] Metal [x] Plastic [ ] Glass [ ] Paper [ ] Other (Specify) _____
* *Certification must be submitted*	If "Yes" Unit Packaging wgt. / No. per container	If "Yes" Package wgt / No. per container	

3. Location of Net Contents Information	4. Size(s) Retail Container	5. Location of Label Directions
[x] Label [ ] Container	2, 4, 8, 16, 20, 22, 36 oz 1, 5, 55, 150, 300 gallons	[x] On Label [ ] On Labeling accompanying product

6. Manner in Which Label is Affixed to Product

[x] Lithograph [ ] Paper glued [ ] Stenciled [ ] Other _____

Section - IV

1. Contact Point *(Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)*

Name	Title	Telephone No. (Include Area Code)
Kevin Kutcel	Consultant	440-263-7305

Certification

I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

6. Date Application Received (Stamped)

2. Signature	3. Title
K Kutcel	Consultant
4. Typed Name	**5. Date**
Kevin Kutcel	2/9/2011

EPA Form 8570-1 (Rev. 8-94) Previous editions are obsolete. White - EPA File Copy (original) Yellow - Applicant Copy

MICROBIOSTATIC AGENT *
A Silicone Quaternary Ammonium Salt

Active Ingredient: 3-(trimethoxysilyl) propyldimethyloctadecyl ammonium chloride.....5.0%
Other Ingredients: 95.0%
TOTAL INGREDIENTS: 100.0%

KEEP OUT OF REACH OF CHILDREN

WARNING

EPA Reg. No. 87583-

EPA EST. xxxxx-xx-xxxx

NET CONTENTS: 2, 4, 8, 16, 20, 22, or 36 fluid oz.; 1, 5, 55, 150, or 300 gal.

FIRST AID
IF IN EYES: • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. • Call poison control center or doctor for treatment advice.
IF INHALED: • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
IF ON SKIN: • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
IF SWALLOWED: • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.

*A microbiostatic agent is an agent that inhibits the growth of odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.
This product does not protect users or others against food-borne or disease-causing bacteria.

PURESHIELD INC , 1445 Jupiter Park Drive # 11, Jupiter, Florida 33458

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING: Causes substantial but temporary eye injury. Harmful if absorbed through skin or inhaled. Do not get in eyes. Avoid contact with skin and avoid breathing vapor.
Wear protective eyewear (goggles or face shield). Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

ENVIRONMENTAL HAZARDS

Commercial and industrial uses: This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge
Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

De-activation may be required during clean up if a spill occurs. De-activation of AM500 can be achieved by the addition of anionic surfactant (such as soap, sulfonates, sulfates) in quantity equivalent to that of AM500.

Homeowner use: This pesticide is toxic to fish. Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of pesticide.

DIRECTIONS FOR USE

Approved commercial and Industrial Applications

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles or face shield) and gloves when using this product. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry.

Prepare solution by simply adding AM500 to solvent and stirring. AM500 can also be diluted by adding 0.2 to 2 fluid ounces of AM500 per cup (3.2 to 32 fluid ounces of AM500 per gallon) of water or other solvents (for example, alcohol and ketones) and than applied to organic or inorganic substrates by brushing, dipping, padding, soaking, spraying, fogging or by using foam finishing techniques to give a final treatment of 0.1 to 1.0 percent by weight active ingredient.

Dry substrates at temperatures from ambient to a maximum of 160° C (320° F) to effect complete condensation of silanol groups and to remove water, solvents and/or traces of methanol from hydrolysis. Optimum application and drying conditions, such as time and temperature, should be determined for each application before use. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

AM500 when used as a concrete additive is added directly concrete preparation. Use 6 fluid ounces AM500 per cubic feet of concrete. Add to water before addition of concrete. Addition of AM500 reduces deterioration of sewer pipes and manholes by inhibiting microbiologically induced corrosion.

AM500 when used as an additive for paints and coatings is added directly during preparation of the paint or coating. Use 5 pounds of AM500 per 100 pounds of paint or coating (or 1 pound AM500 per 20 pounds paint/coating). The addition of the antimicrobial agent (AM500) to paints at the point of manufacture preserves the paint in the can as well as the dried paint film. AM500 inhabits the growth of odor causing bacteria, bacteria which causes staining and discoloration, fungi (mold and mildew), and algae on the surface of dried films and coatings.

Approved commercial and industrial applications

The active ingredient in AM500 is effective against odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew) and algae as a static agent. AM500 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

- Air Filters for furnaces, air-conditioners, air purification devices, automobiles, recirculating air handling systems.
- Air filters/materials
- Aquarium filter material
- Bed sheets, blankets, and bedspreads
- Buffer pads (abrasive and polishing)
- Carpets and draperies
- Cellulose sponges
- Concrete additive for sewer pipes, manholes and concrete sewer structures; not to be used in treatment of storm drains
- Concrete additive for repair and renewal of sewer pipes and manholes and concrete sewers structures; not to be used in treatment of storm drains
- Exterior walls (such as stone, concrete, brick)
- Fiberfill for upholstery, sleeping bags, apparel, where the fiber is cotton, natural down, nylon, polyester, rayon, or wool
- Fiberglass duct board
- Fire hose fabric
- Humidifier belts
- Mattress pads and ticking
- Men's underwear and outerwear
- Non-woven disposable diapers
- Non-woven polyester
- Outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos)
- AM500 can be used in paints and coatings as an in-can preservative for protection of paint film and coating film. Types of paints and coatings include: latex indoor/outdoor paints and stains, woodstains, architectural paints, lacquer and maintenance coatings,

films, laminates and finishes including alkyd, urethane, enamel, epoxy, siloxaline, amino resins, textile coatings, extrusion, coatings, architectural coatings and overlays, anti-corrosion coatings, fire-resistant coatings, aliphatic coatings, vinylester and polyester coatings, gel coating, amino resins, resins used as additive mixes for cement, epoxy laminating resins, and blends and copolymers thereof;

- Polyurethane and cellulose foam for household, industrial, and institutional sponges and mops
- Polyurethane and polyethylene foam, when covered
- Polyurethane foam for packaging and cushioning in non-food contact applications
- Polyurethane foam used as a growth medium for non-food crops and plants
- Pre-moistened towelettes and tissue wipes (these do not impart pesticidal properties)
- Roofing materials – defined as shingles, roofing granules, wood shakes, felt, stone and synthetic overcoats
- Sand bags, tents, tarpaulins, sails, and ropes
- Athletic and casual socks
- Shoe insoles
- Shower curtains
- Socks comprised of nylon, nylon/orlon, cotton/nylon, linen/Lycra, acrylic/polypropylene, nylon, Lycra, wood/silk/nylon/Lycra and wool/acrylic/nylon/Lyrca
- Throw rugs Toweling made of 100 percent cotton, 100 percent polyester, and blends of the two fibers
- Toilet Tank and seat covers
- Umbrellas
- Upholstery made of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethyiene, polyolefins, polyptopylene, rayon, spandex, vinyl, wool
- Vacuum cleaner bags and filters
- Vinyl paper-wallpaper for non-food contact surfaces
- Disposable wiping cloths that can be used for multiple purposes such as dusting or washing furniture, cars, walls, windows, floors, appliances, dishes, counter tops; the wiping cloths do not impart pesticide properties
- Woman's hosiery
- Woman's intimate apparel

DIRECTIONS FOR USE

Approved commercial appliances used in homes, offices, automobiles and institutions e.g., schools, hospitals, daycare centers, churches, correctional facilities

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles and face shield) and gloves when using this product. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry. Clean surfaces prior to application.

For Pump Spray Application: Dilute 8 ounces of AM500 per gallon of water (2 oz. per quart; 1oz. per pint). Using pump sprayer, spray entire area 4"-6"s from the surface making sure the surface is completely covered. Apply and then let stand until dry or let stand 3 minutes and wipe

dry with cloth of sponge. If spotting occurs, wipe with moist cloth or sponge. Test for staining and color-fastness of fabrics and carpets by treating and drying a small, concealed area prior to application. AM500 treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates, more AM500 may be required due to absorption. A fan may be used to assist in drying carpet.

For Commercial Spray Application: For commercial application equipment (i.e. carpet/upholstery steamers, rotary jet extraction cleaners, and pressure sprayers) dilute 8 ounces of AM500 per gallon of water (2oz. per quart; 1oz. per pint); mix well. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test for staining and color-fastness of fabrics and carpets by treating and drying a small, concealed area prior to application. . AM500 treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates, more AM500 may be required due to absorption. Dry carpet areas and surfaces before re-entry and dry articles before use. A fan may be used to assist in drying carpet.

For Dipping/Soaking Application: Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough AM500 solution to completely submerge item. Dilute 8 ounces of AM500 per gallon of water (2oz. per quart; 1oz. per pint); mix well. Completely submerge item in solution for 3 minutes. Remove item and dry. Test for staining and color-fastness of fabrics by treating and drying a small, concealed area prior to application. Do not reuse solution after dipping/soaking.

The substrate can be dried at room temperature or at temperatures to a maximum of 160°C (320°F), for example in a clothes dryer. Remove excess liquid before attempting to dry in a clothes dryer. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

Approved commercial applications in homes, offices, automobiles, and institutions e.g., schools, hospitals, day care centers, banks, churches, correctional facilities

The active ingredient in AM500 is effective against odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew) and algae as a static agent.
AM500 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

- Air Filters for furnaces, air-conditioners, air purification devices, automobiles, recirculating air handling systems.
- Air filters/materials
- Aquarium filter material
- Bed sheets, blankets, and bedspreads
- Buffer pads (abrasive and polishing)
- Carpets and draperies
- Cellulose sponges
- Concrete additive for sewer pipes, manholes and concrete sewer structures, not to be used in treatment of storm drains
- Concrete additive for repair and renewal of sewer pipes and manholes and concrete sewers structures; not to be used in treatment of storm drains

- Exterior walls (such as stone, concrete, brick)
- Fiberfill for upholstery, sleeping bags, apparel, where the fiber is cotton, natural down, nylon, polyester, rayon, or wool
- Fiberglass duct board
- Fire hose fabric
- Humidifier belts
- Mattress pads and ticking
- Men's underwear and outerwear
- Non-woven disposable diapers
- Non-woven polyester
- Outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos)
- AM500 can be used in paints and coatings as an in can preservative for protection of paint film and coating film. Types of paints and coatings include: latex indoor/outdoor paints and stains, woodstains, architectural paints, lacquer and maintenance coatings, films, laminates and finishes including alkyd, urethane, enamel, epoxy, siloxaline, amino resins, textile coatings, extrusion, coatings, architectural coatings and overlays, anti-corrosion coatings, fire-resistant coatings, aliphatic coatings, vinylester and polyester coatings, gel coating, amino resins, resins used as additive mixes for cement, epoxy laminating resins, and blends and copolymers thereof;
- Polyurethane and cellulose foam for household, industrial, and institutional sponges and mops
- Polyurethane and polyethylene foam, when covered
- Polyurethane foam for packaging and cushioning in non-food contact applications
- Polyurethane foam used as a growth medium for non-food crops and plants
- Pre-moistened towelettes and tissue wipes (these do not impart pesticidal properties)
- Roofing materials – defined as shingles, roofing granules, wood shakes, felt, stone and synthetic overcoats
- Sand bags, tents, tarpaulins, sails, and ropes
- Athletic and casual socks
- Shoe insoles
- Shower curtains
- Socks comprised of nylon, nylon/orlon, cotton/nylon, linen/Lycra, acrylic/polypropylene, nylon, Lycra, wood/silk/nylon/Lycra and wool/acrylic/nylon/Lyrca
- Throw rugs Toweling made of 100 percent cotton, 100 percent polyester, and blends of the two fibers
- Toilet Tank and seat covers
- Umbrellas
- Upholstery made of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethylene, polyolefins, polyptopylene, rayon, spandex, vinyl, wool
- Vacuum cleaner bags and filters
- Vinyl paper-wallpaper for non-food contact surfaces
- Disposable wiping cloths that can be used for multiple purposes such as dusting or washing furniture, cars, walls, windows, floors, appliances, dishes, counter tops; the wiping cloths do not impart pesticide properties
- Women's hosiery

- Women's intimate apparel

DIRECTIONS FOR USE

For homeowner applications

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles or face shield) and gloves when using this product. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry. Clean surfaces prior to application.

Approved homeowner uses

The active ingredient in AM500 is effective against odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae as a static agent. AM500 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

	Pest controlled	Dilution Rate	Method of Application
Bedsheets, blankets, bedspreads, curtains, draperies (washable only), underwear, socks, intimate apparel, hosiery, throw rugs, toweling, toilet tank covers, shower curtains, shoe insoles, outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos). AM500 can be applied to fabrics made of acetates, acrylics, cotton, fiberglass, linen, Lycra, nylon,	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	**DIP/SOAK:** Dilute AM500 in water; mix well. Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough AM500 solution to completely submerge item. Keep item in solution for 3 minutes. Remove item and wring excess liquid from treated item. For larger items (e.g. bedspreads, curtains, draperies), place in washing machine on spin cycle to aid in the removal of excess liquid. Test staining and color-fastness of fabric and carpets by treating and drying a small concealed area prior to application. Do not reuse solution after dipping/soaking. Dry treated articles before use. Substrates can be hang-dried at room temperature or at temperatures to a maximum of 160°C (320°F); (for example, in a clothes dryer). If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

orlon, polyester, polyethylene, polyolefins, polypropylene, rayon, silk, spandex, vinyl, and wool.			**SPRAY:** Dilute AM500 in water; mix well. Clean surface prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**
Air filters and air filter material for: • Furnaces, air conditioners • Air purification systems • Automobiles • Recirculating air handling systems • Vacuum cleaner filters • Aquariums	Odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae	8 oz / gallon 2 oz / quart 1 oz / pint	**SPRAY:** Dilute AM500 in water; mix well. When treating filters, remove filter from the unit. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Apply and then let stand until dry. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, mildew stains, and algae stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**

Carpeting	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	**SPRAY:** Dilute AM500 in water; mix well. Apply to clean carpet surface. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. For rotary jet extraction cleaners and carpet steamers, add the diluted AM500 solution directly to the cleaning tank, then operate the equipment in accordance with manufacturer's instructions. Apply and then let stand until dry. Test staining and color-fastness of carpets by treating and drying a small concealed area prior to application. AM500 treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates (e.g., wool carpeting), more AM500 may be required due to absorption. Dry carpet areas and surfaces before re-entry. A fan may be used to assist in drying carpeting. Remove children and pets from treated area until completely dried. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**
Mattress pad and mattress ticking and upholstery composed of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethylene, polyolefins, polypropylene, rayon, spandex, vinyl, wool; fiberfill to be used in upholstery, sleeping bags,	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	**SPRAY:** Dilute AM500 in water; mix well. Clean surfaces prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application. When applying to mattress pads and ticking do not soak. Remove children and pets from treated area until completely dried. If necessary, reapply

apparel, where the fiber is cotton, natural down, nylon, rayon, or wool			AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**
Tents, tarpaulins, sails, ropes.	Odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae	8 oz / gallon 2 oz / quart 1 oz / pint	**SPRAY:** Dilute AM500 in water; mix well. Clean surface prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return. **DIP/SOAK:** Dilute AM500 in water; mix well. Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough AM500 solution to completely submerge item. Keep item in solution for 3 minutes. Remove item and wring excess liquid. Test staining and color-fastness of fabric and carpets by treating and drying a small concealed area prior to application. Do not reuse solution after dipping/soaking. Dry treated articles before use. Substrates can be hang-dried at room temperature or at temperatures to a maximum of 160°C (320°F); (for example, in a clothes dryer). If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**
Roofing materials	Odor-causing	8 oz / gallon	**SPRAY:** Dilute AM500 in water; mix

(such as shingles, roofing granules, wood shakes, felt, stone, synthetic overcoats) Exterior walls (such as stone, concrete, brick)	bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae	2 oz / quart 1 oz / pint	well. Make sure the roof or wall is clean prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 6"-12" from the surface, making sure the surface is completely covered. After applying the diluted solution of AM500, let stand until dry. AM500 treats approximately 200 square feet of roofing or wall per diluted gallon of water. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**
Buffer pads (polishing and abrasive), polyurethane for household sponges and mops, vacuum cleaner bags, umbrellas, casual shoes, athletic shoes	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	**SPRAY:** Dilute AM500 in water; mix well. Clean surface prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**
Tubs, glazed tile, vanity tops, shower curtains, shower stalls (areas), sinks, washable walls, wall paper for non-food contact, floors, window sills, cabinets, garbage cans, appliances, refrigerators (exterior), fiberglass, formica, glazed	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	**SPRAY:** Dilute AM500 in water; mix well. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

tiles, glazed porcelain, synthetic marble, plastic, vinyl			

MOLD, MILDEW, ODOR PROTECTOR AND INHIBITOR AM500 is an antimicrobial agent effective against odor-causing bacteria.
AM500 is an antimicrobial agent effective against bacteria which cause staining and discoloration.
AM500 is an antimicrobial agent effective against fungi (mold and mildew).
AM500 is an antimicrobial agent effective against algae.
AM500, and antimicrobial agent, controls the source of odors on surfaces in the home, in the bathroom, in the kitchen. (Bacteriostatic, fungistatic (mold and mildew), algaestatic.
AM500, and antimicrobial agent, inhibits smelly odors caused by mold and mildew that can grow even in the cleanest of homes.
AM500, and antimicrobial agent, inhibits the growth of odor causing bacteria.
Effective on hard non-porous washable bathroom and kitchen surfaces and fixtures around the home.
Effective on modern hard non-porous washable surfaces like fiberglass, glazed porcelain, Formica®, stainless steel, synthetic marble.
Imparts microbiostatic properties.
Use on carpet and upholstery to inhibit odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew).
Unscented.
Use on carpet and upholstery to inhibit the growth of odor-causing bacteria.
Use on carpet and upholstery to inhibit the growth of bacteria which cause staining and discoloration.
Use on carpet and upholstery to inhibit the growth of fungi (mold and mildew).
Use on carpet and upholstery to inhibit the growth of odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.
Provides and invisible microbiostatic coating to inhibit the growth of odor-causing bacteria.
Provides and invisible microbiostatic coating to inhibit the growth of bacteria which cause staining and discoloration.
Provides and invisible microbiostatic coating to inhibit the growth of fungi (mold and mildew).
Provides and invisible microbiostatic coating to inhibit the growth of algae.
Provides and invisible microbiostatic coating to inhibit the growth of odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.
Prevents deterioration caused by bacteria and fungi (mold and mildew).
Inhibits deterioration caused by bacteria.
Resists development of microbial odors.
Resists development of stains and discoloration due to bacteria.
Resists development of stains due to fungi (mold and mildew).
Resists stains due to algae.
Resists development of microbial odors, stains and discoloration due to bacteria, fungi (mold and mildew), and algae.

Provides/creates an invisible barrier to inhibit the growth of odor-causing bacteria.
Provides/creates an invisible barrier to inhibit the growth of bacteria which cause staining and discoloration.
Provides/creates an invisible barrier to inhibit the growth of fungi (mold and mildew).
Provides/creates an invisible barrier to inhibit the growth of algae.
Provides/creates an invisible barrier to inhibit the growth of odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal.

Pesticide Storage: Store in original, tightly closed containers below 30°C (86°F) and above 0°C (32°F) in a secure area inaccessible to children and away from food or feed.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **[For homeowner use the statement will read:** "Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site."]

Container Disposal: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incinerate, or, if allowed by state and local authorities, dispose of by burning. If burned, stay out of smoke. **[For homeowners use statement will read:** "Container Disposal: Securely wrap original container in several layers of newspaper and discard in trash."]

87583-2

9/7/2010

1/16

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Antimicrobials Division (7510P)
1200 Pennsylvania Avenue NW
Washington, D.C. 20460

EPA Reg. Number:	Date of Issuance:
87583-2	SEP - 7 2010

Term of Issuance: **Conditional**

Name of Pesticide Product: Bio-Protect AM 500

NOTICE OF PESTICIDE:
x Registration
___ Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):
PureShield Inc.
1445 Jupiter Park, Suite 1,
Jupiter, Fl. 33458

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec 3(c)(7)(a) provided that you:

1. Submit and/or cite all data required for registration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for re-registration of your product under FIFRA section 4.

2. Make the labeling change listed below before you release the product for shipment:

(a) Revise the EPA Registration Number to read, "EPA Reg. No. 87583-2

Signature of Approving Official:
Tracy Lentz for
Velma Noble
Product Manager Team-31
Regulatory Management Branch I
Antimicrobials Division (7510P)

Date: SEP - 7 2010

EPA Form 8570-6

CONCURRENCES

SYMBOL								
SURNAME								
DATE								

EPA Form 1320-1A (1/90) *Printed on Recycled Paper* OFFICIAL FILE COPY

(b) Your label does not agree with the cited label. Please delete bullets number 8 and 9 on page 5 which reads:

"Concrete additive for sewer pipes, manhole and concrete sewer structures not to be used in treatment of storm drains".

"Concrete additive for repair and renewal of sewer pipes, manholes and concrete sewer structures; not to be used in treatment of storm drains.

(c) Your label does not agree with the cited label. Please delete bullet number 6 on page 6 which reads:

"Am500 can be used in paints and coating as an in can preservative for protection of paint film and coating film. Types of paints and coating include: latex indoor/outdoor paints and stains, wood stains, architectural paint, lacquer and maintenance coatings, films, laminates and finishes including alkyd, urethane, enamel, epoxy, siloxaline, amino resins, textile coating, architectural coating overlays, anti-corrosion coating, fire-resistant coating aliphatic coatings, vinylester and polyester coatings, gel coating, amino resins, resins used as additive mixes for cement, epoxy laminating resin, blends and copolymers thereof".

(d) Your label does not agree with the cited label. Please delete bullet number 11 on page 6 which reads:

Premoistened towelettes and tissue wipes (these do not impact pesticidedial properties) Roofing material-defined as shingles, roofing granules, wood shakes, felt, stone and synthetic overcoats.

(e) Your label does not agree with the cited label. Please delete bullet number 8 on page 6 which reads:

Non-woven disposable diapers.

(f) Please revise the storage and disposal language on page 13 to read as following:

"Container Handling: (containers intended for residential users) Nonrefillable\container. Do not reuse or refill this container. Securely wrap original container in several layers of newspaper and discard in trash or offer for recycling if available."

"Container Handling: (containers intended for nonresidential users, larger than 5 gallons) "Nonrefillable container. Do not reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Dispose of rinsate as pesticide waste. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration."

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If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records. Submit one (1) copy of your final printed labeling prior to release of this product for shipment. If you have any questions concerning this letter, please contact Velma Nobel at (703) 308-308-6233.

Sincerely,

for Velma Noble
Product Manager 31
Regulatory Branch I
Antimicrobials Division (7510P)

Enclosures: Stamped Label

ACCEPTED
with COMMENTS
in EPA Letter Dated:

SEP - 7 2010

der the Federal Insecticide,
ıgicide, and Rodenticide Act as
ıended, for the pesticide,
gistered under EPA Reg. No. 87583-2

4/16

BIO-PROTECT AM500

MICROBIOSTATIC AGENT *
A Silicone Quaternary Ammonium Salt

Active Ingredient: 3-(trimethoxysilyl) propyldimethyloctadecyl ammonium chloride.....5.0%
Other Ingredients: 95.0%
TOTAL INGREDIENTS: 100.0%

KEEP OUT OF REACH OF CHILDREN

WARNING

EPA Reg. No. 87583-

EPA EST. xxxxx-xx-xxxx

NET CONTENTS: 2, 4, 8, 16, 20, 22, or 36 fluid oz.; 1, 5, 55, 150, or 300 gal.

FIRST AID
IF IN EYES: • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. • Call poison control center or doctor for treatment advice.
IF INHALED: • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
IF ON SKIN: • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
IF SWALLOWED: • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.

*A microbiostatic agent is an agent that inhibits the growth of odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.
This product does not protect users or others against food-borne or disease-causing bacteria.

PURESHIELD INC , 1445 Jupiter Park Drive # 11, Jupiter, Florida 33458

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING: Causes substantial but temporary eye injury. Harmful if absorbed through skin or inhaled. Do not get in eyes. Avoid contact with skin and avoid breathing vapor.
Wear protective eyewear (goggles or face shield). Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

ENVIRONMENTAL HAZARDS

Commercial and industrial uses: This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge
Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

De-activation may be required during clean up if a spill occurs. De-activation of AM500 can be achieved by the addition of anionic surfactant (such as soap, sulfonates, sulfates) in quantity equivalent to that of AM500.

Homeowner use: This pesticide is toxic to fish. Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of pesticide.

DIRECTIONS FOR USE

Approved commercial and Industrial Applications

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles or face shield) and gloves when using this product. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry.

Prepare solution by simply adding AM500 to solvent and stirring. AM500 can also be diluted by adding 0.2 to 2 fluid ounces of AM500 per cup (3.2 to 32 fluid ounces of AM500 per gallon) of water or other solvents (for example, alcohol and ketones) and than applied to organic or inorganic substrates by brushing, dipping, padding, soaking, spraying, fogging or by using foam finishing techniques to give a final treatment of 0.1 to 1.0 percent by weight active ingredient.

Dry substrates at temperatures from ambient to a maximum of 160° C (320° F) to effect complete condensation of silanol groups and to remove water, solvents and/or traces of methanol from hydrolysis. Optimum application and drying conditions, such as time and temperature, should be determined for each application before use. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

AM500 when used as a concrete additive is added directly concrete preparation. Use 6 fluid ounces AM500 per cubic feet of concrete. Add to water before addition of concrete. Addition of AM500 reduces deterioration of sewer pipes and manholes by inhibiting microbiologically induced corrosion.

AM500 when used as an additive for paints and coatings is added directly during preparation of the paint or coating. Use 5 pounds of AM500 per 100 pounds of paint or coating (or 1 pound AM500 per 20 pounds paint/coating). The addition of the antimicrobial agent (AM500) to paints at the point of manufacture preserves the paint in the can as well as the dried paint film. AM500 inhabits the growth of odor causing bacteria, bacteria which causes staining and discoloration, fungi (mold and mildew), and algae on the surface of dried films and coatings.

Approved commercial and industrial applications

The active ingredient in AM500 is effective against odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew) and algae as a static agent. AM500 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

- Air Filters for furnaces, air-conditioners, air purification devices, automobiles, recirculating air handling systems.
- Air filters/materials
- Aquarium filter material
- Bed sheets, blankets, and bedspreads
- Buffer pads (abrasive and polishing)
- Carpets and draperies
- Cellulose sponges
- Concrete additive for sewer pipes, manholes and concrete sewer structures; not to be used in treatment of storm drains
- Concrete additive for repair and renewal of sewer pipes and manholes and concrete sewers structures; not to be used in treatment of storm drains
- Exterior walls (such as stone, concrete, brick)
- Fiberfill for upholstery, sleeping bags, apparel, where the fiber is cotton, natural down, nylon, polyester, rayon, or wool
- Fiberglass duct board
- Fire hose fabric
- Humidifier belts
- Mattress pads and ticking
- Men's underwear and outerwear
- Non-woven disposable diapers
- Non-woven polyester
- Outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos)
- AM500 can be used in paints and coatings as an in-can preservative for protection of paint film and coating film. Types of paints and coatings include: latex indoor/outdoor paints and stains, woodstains, architectural paints, lacquer and maintenance coatings,

films, laminates and finishes including alkyd, urethane, enamel, epoxy, siloxaline, amino resins, textile coatings, extrusion, coatings, architectural coatings and overlays, anti-corrosion coatings, fire-resistant coatings, aliphatic coatings, vinylester and polyester coatings, gel coating, amino resins, resins used as additive mixes for cement, epoxy laminating resins, and blends and copolymers thereof;

- Polyurethane and cellulose foam for household, industrial, and institutional sponges and mops
- Polyurethane and polyethylene foam, when covered
- Polyurethane foam for packaging and cushioning in non-food contact applications
- Polyurethane foam used as a growth medium for non-food crops and plants
- Pre-moistened towelettes and tissue wipes (these do not impart pesticidal properties)
- Roofing materials – defined as shingles, roofing granules, wood shakes, felt, stone and synthetic overcoats
- Sand bags, tents, tarpaulins, sails, and ropes
- Athletic and casual socks
- Shoe insoles
- Shower curtains
- Socks comprised of nylon, nylon/orlon, cotton/nylon, linen/Lycra, acrylic/polypropylene, nylon, Lycra, wood/silk/nylon/Lycra and wool/acrylic/nylon/Lyrca
- Throw rugs Toweling made of 100 percent cotton, 100 percent polyester, and blends of the two fibers
- Toilet Tank and seat covers
- Umbrellas
- Upholstery made of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethyiene, polyolefins, polyptopylene, rayon, spandex, vinyl, wool
- Vacuum cleaner bags and filters
- Vinyl paper-wallpaper for non-food contact surfaces
- Disposable wiping cloths that can be used for multiple purposes such as dusting or washing furniture, cars, walls, windows, floors, appliances, dishes, counter tops; the wiping cloths do not impart pesticide properties
- Woman's hosiery
- Woman's intimate apparel

DIRECTIONS FOR USE

Approved commercial appliances used in homes, offices, automobiles and institutions e.g., schools, hospitals, daycare centers, churches, correctional facilities

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles and face shield) and gloves when using this product. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry. Clean surfaces prior to application.

For Pump Spray Application: Dilute 8 ounces of AM500 per gallon of water (2 oz. per quart; 1oz. per pint). Using pump sprayer, spray entire area 4"-6"s from the surface making sure the surface is completely covered. Apply and then let stand until dry or let stand 3 minutes and wipe

dry with cloth of sponge. If spotting occurs, wipe with moist cloth or sponge. Test for staining and color-fastness of fabrics and carpets by treating and drying a small, concealed area prior to application. AM500 treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates, more AM500 may be required due to absorption. A fan may be used to assist in drying carpet.

For Commercial Spray Application: For commercial application equipment (i.e. carpet/upholstery steamers, rotary jet extraction cleaners, and pressure sprayers) dilute 8 ounces of AM500 per gallon of water (2oz. per quart; 1oz. per pint); mix well. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test for staining and color-fastness of fabrics and carpets by treating and drying a small, concealed area prior to application. . AM500 treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates, more AM500 may be required due to absorption. Dry carpet areas and surfaces before re-entry and dry articles before use. A fan may be used to assist in drying carpet.

For Dipping/Soaking Application: Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough AM500 solution to completely submerge item. Dilute 8 ounces of AM500 per gallon of water (2oz. per quart; 1oz. per pint); mix well. Completely submerge item in solution for 3 minutes. Remove item and dry. Test for staining and color-fastness of fabrics by treating and drying a small, concealed area prior to application. Do not reuse solution after dipping/soaking.

The substrate can be dried at room temperature or at temperatures to a maximum of 160°C (320°F), for example in a clothes dryer. Remove excess liquid before attempting to dry in a clothes dryer. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

Approved commercial applications in homes, offices, automobiles, and institutions e.g., schools, hospitals, day care centers, banks, churches, correctional facilities

The active ingredient in AM500 is effective against odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew) and algae as a static agent.
AM500 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

- Air Filters for furnaces, air-conditioners, air purification devices, automobiles, recirculating air handling systems.
- Air filters/materials
- Aquarium filter material
- Bed sheets, blankets, and bedspreads
- Buffer pads (abrasive and polishing)
- Carpets and draperies
- Cellulose sponges
- Concrete additive for sewer pipes, manholes and concrete sewer structures, not to be used in treatment of storm drains
- Concrete additive for repair and renewal of sewer pipes and manholes and concrete sewers structures; not to be used in treatment of storm drains

- Exterior walls (such as stone, concrete, brick)
- Fiberfill for upholstery, sleeping bags, apparel, where the fiber is cotton, natural down, nylon, polyester, rayon, or wool
- Fiberglass duct board
- Fire hose fabric
- Humidifier belts
- Mattress pads and ticking
- Men's underwear and outerwear
- Non-woven disposable diapers
- Non-woven polyester
- Outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos)
- AM500 can be used in paints and coatings as an in can preservative for protection of paint film and coating film. Types of paints and coatings include: latex indoor/outdoor paints and stains, woodstains, architectural paints, lacquer and maintenance coatings, films, laminates and finishes including alkyd, urethane, enamel, epoxy, siloxaline, amino resins, textile coatings, extrusion, coatings, architectural coatings and overlays, anti-corrosion coatings, fire-resistant coatings, aliphatic coatings, vinylester and polyester coatings, gel coating, amino resins, resins used as additive mixes for cement, epoxy laminating resins, and blends and copolymers thereof;
- Polyurethane and cellulose foam for household, industrial, and institutional sponges and mops
- Polyurethane and polyethylene foam, when covered
- Polyurethane foam for packaging and cushioning in non-food contact applications
- Polyurethane foam used as a growth medium for non-food crops and plants
- Pre-moistened towelettes and tissue wipes (these do not impart pesticidal properties)
- Roofing materials – defined as shingles, roofing granules, wood shakes, felt, stone and synthetic overcoats
- Sand bags, tents, tarpaulins, sails, and ropes
- Athletic and casual socks
- Shoe insoles
- Shower curtains
- Socks comprised of nylon, nylon/orlon, cotton/nylon, linen/Lycra, acrylic/polypropylene, nylon, Lycra, wood/silk/nylon/Lycra and wool/acrylic/nylon/Lyrca
- Throw rugs Toweling made of 100 percent cotton, 100 percent polyester, and blends of the two fibers
- Toilet Tank and seat covers
- Umbrellas
- Upholstery made of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethylene, polyolefins, polyptopylene, rayon, spandex, vinyl, wool
- Vacuum cleaner bags and filters
- Vinyl paper-wallpaper for non-food contact surfaces
- Disposable wiping cloths that can be used for multiple purposes such as dusting or washing furniture, cars, walls, windows, floors, appliances, dishes, counter tops; the wiping cloths do not impart pesticide properties
- Women's hosiery

- Women's intimate apparel

DIRECTIONS FOR USE

For homeowner applications

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles or face shield) and gloves when using this product. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry. Clean surfaces prior to application.

Approved homeowner uses

The active ingredient in AM500 is effective against odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae as a static agent. AM500 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

	Pest controlled	Dilution Rate	Method of Application
Bedsheets, blankets, bedspreads, curtains, draperies (washable only), underwear, socks, intimate apparel, hosiery, throw rugs, toweling, toilet tank covers, shower curtains, shoe insoles, outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos). AM500 can be applied to fabrics made of acetates, acrylics, cotton, fiberglass, linen, Lycra, nylon,	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	**DIP/SOAK:** Dilute AM500 in water; mix well. Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough AM500 solution to completely submerge item. Keep item in solution for 3 minutes. Remove item and wring excess liquid from treated item. For larger items (e.g. bedspreads, curtains, draperies), place in washing machine on spin cycle to aid in the removal of excess liquid. Test staining and color-fastness of fabric and carpets by treating and drying a small concealed area prior to application. Do not reuse solution after dipping/soaking. Dry treated articles before use. Substrates can be hang-dried at room temperature or at temperatures to a maximum of 160°C (320°F); (for example, in a clothes dryer). If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

orlon, polyester, polyethylene, polyolefins, polypropylene, rayon, silk, spandex, vinyl, and wool.			**SPRAY:** Dilute AM500 in water; mix well. Clean surface prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**
Air filters and air filter material for: • Furnaces, air conditioners • Air purification systems • Automobiles • Recirculating air handling systems • Vacuum cleaner filters • Aquariums	Odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae	8 oz / gallon 2 oz / quart 1 oz / pint	**SPRAY:** Dilute AM500 in water; mix well. When treating filters, remove filter from the unit. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Apply and then let stand until dry. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, mildew stains, and algae stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**

Carpeting	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	**SPRAY:** Dilute AM500 in water; mix well. Apply to clean carpet surface. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. For rotary jet extraction cleaners and carpet steamers, add the diluted AM500 solution directly to the cleaning tank, then operate the equipment in accordance with manufacturer's instructions. Apply and then let stand until dry. Test staining and color-fastness of carpets by treating and drying a small concealed area prior to application. AM500 treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates (e.g., wool carpeting), more AM500 may be required due to absorption. Dry carpet areas and surfaces before re-entry. A fan may be used to assist in drying carpeting. Remove children and pets from treated area until completely dried. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
[redacted]	**Pest controlled**	**Dilution Rate**	**Method of Application**
Mattress pad and mattress ticking and upholstery composed of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethylene, polyolefins, polypropylene, rayon, spandex, vinyl, wool; fiberfill to be used in upholstery, sleeping bags,	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	**SPRAY:** Dilute AM500 in water; mix well. Clean surfaces prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application. When applying to mattress pads and ticking do not soak. Remove children and pets from treated area until completely dried. If necessary, reapply

apparel, where the fiber is cotton, natural down, nylon, rayon, or wool			AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**
Tents, tarpaulins, sails, ropes.	Odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae	8 oz / gallon 2 oz / quart 1 oz / pint	**SPRAY:** Dilute AM500 in water; mix well. Clean surface prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return. **DIP/SOAK:** Dilute AM500 in water; mix well. Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough AM500 solution to completely submerge item. Keep item in solution for 3 minutes. Remove item and wring excess liquid. Test staining and color-fastness of fabric and carpets by treating and drying a small concealed area prior to application. Do not reuse solution after dipping/soaking. Dry treated articles before use. Substrates can be hang-dried at room temperature or at temperatures to a maximum of 160°C (320°F); (for example, in a clothes dryer). If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**
Roofing materials	Odor-causing	8 oz / gallon	**SPRAY:** Dilute AM500 in water; mix

(such as shingles, roofing granules, wood shakes, felt, stone, synthetic overcoats) Exterior walls (such as stone, concrete, brick)	bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae	2 oz / quart 1 oz / pint	well. Make sure the roof or wall is clean prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 6"-12" from the surface, making sure the surface is completely covered. After applying the diluted solution of AM500, let stand until dry. AM500 treats approximately 200 square feet of roofing or wall per diluted gallon of water. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**
Buffer pads (polishing and abrasive), polyurethane for household sponges and mops, vacuum cleaner bags, umbrellas, casual shoes, athletic shoes	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	**SPRAY:** Dilute AM500 in water; mix well. Clean surface prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	**Dilution Rate**	**Method of Application**
Tubs, glazed tile, vanity tops, shower curtains, shower stalls (areas), sinks, washable walls, wall paper for non-food contact, floors, window sills, cabinets, garbage cans, appliances, refrigerators (exterior), fiberglass, formica, glazed	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	**SPRAY:** Dilute AM500 in water; mix well. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

tiles, glazed porcelain, synthetic marble, plastic, vinyl			

MOLD, MILDEW, ODOR PROTECTOR AND INHIBITOR AM500 is an antimicrobial agent effective against odor-causing bacteria.
AM500 is an antimicrobial agent effective against bacteria which cause staining and discoloration.
AM500 is an antimicrobial agent effective against fungi (mold and mildew).
AM500 is an antimicrobial agent effective against algae.
AM500, and antimicrobial agent, controls the source of odors on surfaces in the home, in the bathroom, in the kitchen. (Bacteriostatic, fungistatic (mold and mildew), algaestatic.
AM500, and antimicrobial agent, inhibits smelly odors caused by mold and mildew that can grow even in the cleanest of homes.
AM500, and antimicrobial agent, inhibits the growth of odor causing bacteria.
Effective on hard non-porous washable bathroom and kitchen surfaces and fixtures around the home.
Effective on modern hard non-porous washable surfaces like fiberglass, glazed porcelain, Formica®, stainless steel, synthetic marble.
Imparts microbiostatic properties.
Use on carpet and upholstery to inhibit odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew).
Unscented.
Use on carpet and upholstery to inhibit the growth of odor-causing bacteria.
Use on carpet and upholstery to inhibit the growth of bacteria which cause staining and discoloration.
Use on carpet and upholstery to inhibit the growth of fungi (mold and mildew).
Use on carpet and upholstery to inhibit the growth of odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.
Provides and invisible microbiostatic coating to inhibit the growth of odor-causing bacteria.
Provides and invisible microbiostatic coating to inhibit the growth of bacteria which cause staining and discoloration.
Provides and invisible microbiostatic coating to inhibit the growth of fungi (mold and mildew).
Provides and invisible microbiostatic coating to inhibit the growth of algae.
Provides and invisible microbiostatic coating to inhibit the growth of odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.
Prevents deterioration caused by bacteria and fungi (mold and mildew).
Inhibits deterioration caused by bacteria.
Resists development of microbial odors.
Resists development of stains and discoloration due to bacteria.
Resists development of stains due to fungi (mold and mildew).
Resists stains due to algae.
Resists development of microbial odors, stains and discoloration due to bacteria, fungi (mold and mildew), and algae.

Provides/creates an invisible barrier to inhibit the growth of odor-causing bacteria.
Provides/creates an invisible barrier to inhibit the growth of bacteria which cause staining and discoloration.
Provides/creates an invisible barrier to inhibit the growth of fungi (mold and mildew).
Provides/creates an invisible barrier to inhibit the growth of algae.
Provides/creates an invisible barrier to inhibit the growth of odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal.

Pesticide Storage: Store in original, tightly closed containers below 30°C (86°F) and above 0°C (32°F) in a secure area inaccessible to children and away from food or feed.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **[For homeowner use the statement will read:** "Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site."]

Container Disposal: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incinerate, or, if allowed by state and local authorities, dispose of by burning. If burned, stay out of smoke. **[For homeowners use statement will read:** "Container Disposal: Securely wrap original container in several layers of newspaper and discard in trash."]

KRK Consulting LLC
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Medina, OH 44256
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May 12, 2010

Document Processing Desk (AMEND)
Office of Pesticide Programs (7504P)
U.S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, VA 22202-4501

Subject: CSF Formulation Amendment (EPA No. 87583-2)

Please accept the attached two copies of an alternate Confidential Statement of Formula (EPA Form 8570-4) for Reg. No. 87583-2 "Bio-Protect AM500" along with one copy of the current Confidential State of Formula on file with the EPA for this registration.

Please note that the original CSF is a 100% repackage of 87583-2 [redacted] attached is a letter of authorization from Inhold LLC granting permission to cite their relevant product chemistry and the corresponding data matrices citing the specific product chemistry studies.

Please note that KRK Consulting LLC is the authorized agent handling all correspondence for PureShield Inc. and therefore all responses should be directed to the contact information on the letterhead above.

Best Regards,

Kevin R. Kutcel,
Agent for PureShield Inc.

INHOLD LLC

1445 Jupiter Park Dr.
Suite 11
Jupiter, FL 33458

April 21, 2010

U.S. Environmental Protection Agency
Office of Pesticide Programs (H7505C)
Room S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, VA 22202-4501

Subject: Inhold, LLC Letter of Authorization for PureShield Inc. (Reg. No. 87583-)

To Whom It May Concern:

The following studies are owned by Inhold, LLC (company no. 70871) and this letter grants permission for PureShield Inc. (company no. 87583) to cite the following studies on their data matrices in support of the registration of their products, "Bio-Protect AM500" and "Bio-Protect 7200".

MRID No.	Study Title
44279400	BioShield Technologies, Inc. (1997) Submission of Product Chemistry Data in Support of the Applications for Registration for AM 500 I and AM 500. Transmittal of 4 Studies.
44279401	BioShield Technologies, Inc. (1997) Product Identity and Composition of AM 500 I and AM 500. Unpublished study. 14 p.
44279402	BioShield Technologies, Inc. (1997) Description of Beginning Materials and the Manufacturing Process of AM 500 I and AM 500. Unpublished study. 24 p.
44279403	Berkner, J. (1997) Discussion of Formation of Impurities in AM 500 I and AM 500. Unpublished study prepared by BioShield Technologies, Inc. 4 p.
44279404	Wells, D. (1997) AM500--Conducting Product Chemistry Studies for an End-Use Product Following Product Properties Test Guidelines: Final Report: Lab Project Number: 97-3-6913:13637.1196.6100.880. Unpublished study prepared by Springbor Laboratories, Inc. 44 p. {OPPTS 830.6302, 830.6303, 830.6304, 830.7300, 830.7100, & 830.7000}
44351901	Jellinek, Schwartz & Connolly, Inc. (1997) Preliminary Analysis, Certification of Ingredient Limits, and Analytical Method for Enforcement of Limits for BioShield AM 500 and BioShield AM 500 I: Lab Project Number: 13637.0497.6102.250: 102196/830.6317/BIOSHIELD. Unpublished study prepared by Springborn Laboratories, Inc. 13 p.
44376000	BioShield Technologies, Inc. (1997) Submission of Product Chemistry Data in Support of the Application for Registration of BST Protectant Concentrate C15. Transmittal of 3 Studies.
44376001	BioShield Technologies, Inc. (1997) Product Identity of BST Protectant Concentrate C15. Unpublished study. 23 p.
44376002	BioShield Technologies, Inc. (1997) Certification of Limits and Analytical Method for

	Enforcement of Limits for BST Protectant Concentrate C15: Lab Project Number: 102196/830.6317/BIOSHIELD. Unpublished study. 11 p.
44376003	BioShield Technologies, Inc. (1997) Physical and Chemical Properties of BST Protectant Concentrate C15. Unpublished study. 4 p.
44376200	BioShield Technologies, Inc. (1997) Submission of Product Chemistry Data in Support of the Registration of BST Protectant 50. Transmittal of 3 Studies.
44376201	BioShield Technologies, Inc. (1997) Product Identity of BST Protectant 50. Unpublished study. 23p.
44376202	BioShield Technologies, Inc. (1997) Certification of Limits and Analytical Method for Enforcement o f Limits for BST Protectant 50. Unpublished study. 11 p.
44376203	BioShield Technologies, Inc. (1997) Physical and Chemical Properties of BST Protectant 50. Unpublished study. 4 p
44379400	BioShield Technologies, Inc. (1997) Submission of Product Chemistry Data in Support of Application for the Registration of BST Protectant 75. Transmittal of 3 Studies.
44379401	BioShield Technologies, Inc. (1997) Product Identity of BST Protectant 75. Unpublished study. 23 p.
44379402	BioShield Technologies, Inc. (1997) Certification of Limits and Analytical Method for Enforcement of Limits for BST Protectant 75. Unpublished study. 11 p.
44379403	BioShield Technologies, Inc. (1997) Physical and Chemical Properties of BST Protectant 75. Unpublished study. 4 p.
44385100	BioShield Technologies, Inc. (1997) Submission of Product Chemistry Data in Support of the Application for Registration of BST Kleen Air 05. Transmittal of 3 Studies.
44385101	BioShield Technologies, Inc. (1997) Product Identity of BST Kleen Air 05. Unpublished study. 31p.
44385102	BioShield Technologies, Inc. (1997) Certification of Limits and Analytical Method for Enforcement of Limits for BST Kleen Air 05: Lab Project Number: 102196/830.6317/BIOSHIELD. Unpublished study. 12 p
44385103	BioShield Technologies, Inc. (1997) Physical and Chemical Properties of BST Kleen Air 05. Unpublished study. 4 p.
44385200	BioShield Technologies, Inc. (1997) Submission of Product Chemistry Data in Support of the Application for Registration of BST Fabric Softener 175. Transmittal of 3 Studies.
44385201	BioShield Technologies, Inc. (1997) Product Identity of BST Fabric Softener 175. Unpublished study. 67 p
44385202	BioShield Technologies, Inc. (1997) Certification of Limits and Analytical Method for Enforcement of Limits for BST Fabric Softener 175. Unpublished study. 12 p.
44385203	BioShield Technologies, Inc. (1997) Physical and Chemical Properties of BST Fabric Softener 175. Unpublished study. 4 p.
44385300	BioShield Technologies, Inc. (1997) Submission of Product Chemistry Data in Support of the Application for Registration of BST Carpet and Upholstery Cleaner Aerosol 25. Transmittal of 3 Studies.
44385301	BioShield Technologies, Inc. (1997) Product Identity of BST Carpet and Upholstery Cleaner Aerosol 25. Unpublished study. 41 p.
44385302	BioShield Technologies, Inc. (1997) Certification of Limits and Analytical Method for Enforcement of Limits for BST Carpet and Upholstery Cleaner Aerosol 25. Unpublished study. 11 p.
44385303	BioShield Technologies, Inc. (1997) Physical and Chemical Properties of BST Carpet and Upholstery Cleaner Aerosol 25. Unpublished study. 4 p.
44385600	Bioshield Technologies, Inc. (1997) Submission of Product Chemistry Data in Support

	of the Application for Registration of BST Mold and Mildew Remover and All Purpose Cleaner 25. Transmittal of 3 Studies.
44385601	BioShield Technologies, Inc. (1997) Product Identity of BST Mold and Mildew Remover & All Purpose Cleaner 25. Unpublished study. 68 p.
44385602	BioShield Technologies, Inc. (1997) Certification of Limits and Analytical Method for Enforcement of Limits for BST Mold and Mildew Remover & All Purpose Cleaner 25. Unpublished study. 12 p.
44385603	BioShield Technologies, Inc. (1997) Physical and Chemical Properties of BST Mold and Mildew Remover & All Purpose Cleaner 25. Unpublished study. 4 p.
44385700	BioShield Technologies, Inc. (1997) Submission of Product Chemistry Data in Support of the Application for Registration of BST Carpet and Upholstery Concentrate C15. Transmittal of 3 Studies.
44385701	BioShield Technologies, Inc. (1997) Product Identity of BST Carpet and Upholstery Cleaner Concentrate C15. Unpublished study. 47 p.
44385702	BioShield Technologies, Inc. (1997) Certification of Limits and Analytical Method for Enforcement of Limits for BST Carpet and Upholstery Cleaner Concentrate C15: Lab Project Number: 102196/830.6317/BIOSHIELD. Unpublished study. 12 p
44385703	BioShield Technologies, Inc. (1997) Physical and Chemical Properties of BST Carpet and Upholstery Cleaner Concentrate C15. Unpublished study. 4 p.
44386000	BioShield Technologies, Inc. (1997) Submission of Product Chemistry Data in Support of the Application for Registration of BST Carpet and Upholstery Cleaner 25. Transmittal of 3 Studies
44386001	BioShield Technologies, Inc. (1997) Product Identity of BST Carpet and Upholstery Cleaner 25 Unpublished study. 37 p.
44386002	BioShield Technologies, Inc. (1997) Certification of Limits and Analytical Method for Enforcement of Limits for BST Carpet and Upholstery Cleaner 25: Lab Project Number: 102196/830/6317/BIOSHIELD. Unpublished study. 11 p
44386003	BioShield Technologies, Inc. (1997) Physical and Chemical Properties of BST Carpet and Upholstery Cleaner 25. Unpublished study. 4 p
44553500	BioShield Technologies, Inc. (1998) Submission of Toxicity Data in Support of the Application for Registration of BioShield AM 500 and BioShield 500 I. Transmittal of 1 Study.
44553501	Kuhn, J. (1998) Primary Eye Irritation Study in Rabbits: AM500: Final Report: Lab Project Number: 4263-98. Unpublished study prepared by Stillmeadow Inc. 21 p.
44789800	BioShield Technologies, Inc. (1999) Submission of Toxicity Data in Support of the Application for Registration of BST Protectant 50. Transmittal of 1 Study.
44789801	Kuhn, J. (1999) Primary Eye Irritation Study in Rabbits: AM 500: Final Report: Lab Project Number: 4842-98. Unpublished study prepared by Stillmeadow, Inc. 17 p. {OPPTS 870.2400}
44789900	BioShield Technologies, Inc. (1999) Submission of Toxicity Data in Support of the Application for Registration of BST Protectant Concentrate C15. Transmittal of 1 Study
44789901	Kuhn, J. (1999) Primary Eye Irritation Study in Rabbits: (BST Protectant Concentrate C15): Final Report: Lab Project Number: 4841-98. Unpublished study prepared by Stillmeadow, Inc. 17 p. (OPPTS 870.2400)
44876600	BioShield Technologies, Inc. (1999) Submission of Product Chemistry Data in Support of the Application for Registration of BioShield AMS 1860. Transmittal of 3 Studies.
44876601	Wells, D. (1999) AMS 1860-Preliminary Analysis: Lab Project Number: 13637.6110: 4.3.07(2). Unpublished study prepared by Springborn Laboratories, Inc. 51 p.

	{OPPTS. 830.1700}
44876602	Damico, J. (1999) AMS 1860-Certified Limits. Unpublished study prepared by BioShield Technologies, Inc. 4 p. {OPPTS. 830.1750}
44876603	Wells, D. (1999) AMS 1860-Product Chemistry Testing Test Guidelines, Series 830: Lab Project Number: 13637.6118. Unpublished study prepared by Springborn for an End-Use Product Following Product Properties Laboratories, Inc. 47 p. {OPPTS. 830.6302, 830.6303, 830.6304, 830.6315, 830.7300, 830.7100, 830.7000)
44885900	Bioshield Technologies, Inc. (1999) Submission of Product Chemistry Data in Support of the Application for Registration of Bioshield AMS 1860. Transmittal of 2 Studies.
44885901	Damico, J. (1999) Product Identity and Disclosure of Ingredients, Description of Beginning Materials and Manufacturing Process, and Discussion of the Formation of Impurities: AMS-1860. Unpublished study prepared by SciReg, Inc. 73 p. {OPPTS 830.1550, 830.1620, 830.1670}
44885902	Wells, D. (1999) AMS 1860--Determination of the Boiling Point: Lab Project Number: 13637.6120. Unpublished study prepared by Springborn Laboratories. 25 p. {OPPTS 830.7200}
44929100	BioShield Technologies, Inc. (1999) Submission of Product Chemistry Data in Support of the Application for Registration of AMS 1860. Transmittal of 1 Study.
44929101	Ward, T.; Rondon, C.; Boeri, R. (1999) AMS 1860: Determination of Stability at Normal and Elevated Temperatures and in the Presence study prepared by T.R. Wilbury Labs., Inc. 40 p. {OPPTS 830.6313}of Metals and Metal Ions: Lab Project Number: 1853-BS. Unpublished
44972400	BioShield Technlogies, Inc. (1999) Submission of Product Chemistry Data in Support of the Application for Registration of BSTI 1860. Transmittal of 1 Study.
44972401	Damico, J. (1999) BSTI 1860: Product Identity and Disclosure of Ingredients, Description of Beginning Materials and Manufacturing Process, and Discussion of the Formation of Impurities. Unpublished study prepared by SciReg, Inc. 43 p. {OPPTS 830.1550, 830.1620,830.1620, 830.1670, 830.1750}
45121300	BioShield Technologies, Inc. (2000) Submission of Product Chemistry and Toxicity Data in Support of the Application for Registration of AM 3651PI. Transmittal of 8 Studies
45121301	Smith, F. (2000) AM 3651PI: Product Identity and Composition, Description of Beginning Materials, Description of Formula Process, Discussion of the Formation of Impurities, and Certified Limits. Unpublished study prepared by SciReg, Inc. 40 p. {OPPTS 830.1550, 830.1600, 830.1650, 830.1670, 830.1750}
45121302	Wells, D. (1999) AM 3651PI--Determination of Storage Stability: Lab Project Number: 13637.0897.6107.865: 13637.6107. Unpublished study prepared by Springborn Labs., Inc. 36 p. {OPPTS 830.6317}
45121303	Kuhn, J. (1999) AM 3651PI: Acute Oral Toxicity Study in Rats: Final Report: Lab Project Number: 4850-98. Unpublished study prepared by Stillmeadow, Inc. 24 p. {OPPTS 870.1100}
45121304	Kuhn, J. (1999) AM 3651P: Acute Dermal Toxicity Study in Rabbits: Final Report: Lab Project Number: 4851-98. Unpublished study prepared by Stillmeadow, Inc. 22 p. {OPPTS 870.1200}
45121305	Bennick, J. (1999) AM 3651P: Acute Inhalation Toxicity Study in Rats: Final Report: Lab Project Number: 4852-98. Unpublished study prepared by Stillmeadow, Inc. 36 p. {OPPTS 870.2400}
45121306	Kuhn, J. (1999) AM 3651P: Primary Dermal Irritation Study in Rabbits: Final Report: Lab Project Number: 4854-98. Unpublished study prepared by Stillmeadow, Inc. 18 p. {OPPTS 870.2400}

45121307	Kuhn, J. (1999) AM 3651P: Primary Dermal Irritation Study in Rabbits: Final Report: Lab Project Number: 4854-98. Unpublished study prepared by Stillmeadow, Inc. 13 p. {OPPTS 870.2500}
45121308	Kuhn, J. (1999) AM 3651P: Dermal Sensitization Study in Guinea Pigs: Final Report: Lab Project Number: 4855-98. Unpublished study prepared by Stillmeadow, Inc. 18 p. {OPPTS 870.2600}
45245700	BioShield Technologies, Inc. (2000) Submission of Product Chemistry Data in Support of the Application for Registration of AM 3651P1. Transmittal of 1 Study.
45245701	Damico, J. (2000) AM 3651P1: Physical-Chemical Characteristics. Unpublished study prepared by SciReg,Inc. 7 p. {OPPTS 830.6302, 830.6303, 830.6304, 830.7000, 830.7100, 830.7300, 830.6315, 830.6320}
45347600	Bioshield Technologies, Inc. (2001) Submission of Efficacy Data in Support of the Application for Registration AM 3651P. Transmittal of 2 Studies.
45347601	Snyder, A. (1999) AOAC Use-Dilution Method: AM 3651P: Final Study Report: Lab Project Number: 7361/SRC021099.UD: 7669/SRC061099.UD. Unpublished study prepared by ViroMed Biosafety Labs. 15
45347602	Onstad, B. (2000) Germicidal and Detergent Sanitizing Action of Disinfectants: AM 3651P: Final Study Report: Lab Project Number: 7457: SRC050699.SAN. Unpublished study prepared by ViroMed Biosafety

Please do not hesitate to contact me or our agent, Mr. Kevin Kutcel at 440-263-7305 if you should have any questions regarding this authorization.

Best Regards,

Mr. Joseph Raich, Manager

Mr. Andrew Robinson, Manager
21/04/2010

INHOLD LLC

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Suite 11
Jupiter, FL 33458

April 21, 2010

U.S. Environmental Protection Agency
Office of Pesticide Programs (H7505C)
Room S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, VA 22202-4501

Subject: Inhold, LLC Letter of Authorization for PureShield Inc. (Reg. No. 87583-)

To Whom It May Concern:

The following studies are owned by Inhold, LLC (company no. 70871) and this letter grants permission for PureShield Inc. (company no. 87583) to cite the following studies on their data matrices in support of the registration of their products, "Bio-Protect AM500" and "Bio-Protect 7200".

MRID No.	Study Title
44279400	BioShield Technologies, Inc. (1997) Submission of Product Chemistry Data in Support of the Applications for Registration for AM 500 I and AM 500. Transmittal of 4 Studies.
44279401	BioShield Technologies, Inc. (1997) Product Identity and Composition of AM 500 I and AM 500. Unpublished study. 14 p.
44279402	BioShield Technologies, Inc. (1997) Description of Beginning Materials and the Manufacturing Process of AM 500 I and AM 500. Unpublished study. 24 p.
44279403	Berkner, J. (1997) Discussion of Formation of Impurities in AM 500 I and AM 500. Unpublished study prepared by BioShield Technologies, Inc. 4 p.
44279404	Wells, D. (1997) AM500--Conducting Product Chemistry Studies for an End-Use Product Following Product Properties Test Guidelines: Final Report: Lab Project Number: 97-3-6913:13637.1196.6100.880. Unpublished study prepared by Springbor Laboratories, Inc. 44 p. {OPPTS 830.6302, 830.6303, 830.6304, 830.7300, 830.7100, & 830.7000}
44351901	Jellinek, Schwartz & Connolly, Inc. (1997) Preliminary Analysis, Certification of Ingredient Limits, and Analytical Method for Enforcement of Limits for BioShield AM 500 and BioShield AM 500 I: Lab Project Number: 13637.0497.6102.250: 102196/830.6317/BIOSHIELD. Unpublished study prepared by Springborn Laboratories, Inc. 13 p.
44376000	BioShield Technologies, Inc. (1997) Submission of Product Chemistry Data in Support of the Application for Registration of BST Protectant Concentrate C15. Transmittal of 3 Studies.
44376001	BioShield Technologies, Inc. (1997) Product Identity of BST Protectant Concentrate C15. Unpublished study. 23 p.
44376002	BioShield Technologies, Inc. (1997) Certification of Limits and Analytical Method for

	Enforcement of Limits for BST Protectant Concentrate C15: Lab Project Number: 102196/830.6317/BIOSHIELD. Unpublished study. 11 p.
44376003	BioShield Technologies, Inc. (1997) Physical and Chemical Properties of BST Protectant Concentrate C15. Unpublished study. 4 p.
44376200	BioShield Technologies, Inc. (1997) Submission of Product Chemistry Data in Support of the Registration of BST Protectant 50. Transmittal of 3 Studies.
44376201	BioShield Technologies, Inc. (1997) Product Identity of BST Protectant 50. Unpublished study. 23p.
44376202	BioShield Technologies, Inc. (1997) Certification of Limits and Analytical Method for Enforcement o f Limits for BST Protectant 50. Unpublished study. 11 p.
44376203	BioShield Technologies, Inc. (1997) Physical and Chemical Properties of BST Protectant 50. Unpublished study. 4 p
44379400	BioShield Technologies, Inc. (1997) Submission of Product Chemistry Data in Support of Application for the Registration of BST Protectant 75. Transmittal of 3 Studies.
44379401	BioShield Technologies, Inc. (1997) Product Identity of BST Protectant 75. Unpublished study. 23 p.
44379402	BioShield Technologies, Inc. (1997) Certification of Limits and Analytical Method for Enforcement of Limits for BST Protectant 75. Unpublished study. 11 p.
44379403	BioShield Technologies, Inc. (1997) Physical and Chemical Properties of BST Protectant 75. Unpublished study. 4 p.
44385100	BioShield Technologies, Inc. (1997) Submission of Product Chemistry Data in Support of the Application for Registration of BST Kleen Air 05. Transmittal of 3 Studies.
44385101	BioShield Technologies, Inc. (1997) Product Identity of BST Kleen Air 05. Unpublished study. 31p.
44385102	BioShield Technologies, Inc. (1997) Certification of Limits and Analytical Method for Enforcement of Limits for BST Kleen Air 05: Lab Project Number: 102196/830.6317/BIOSHIELD. Unpublished study. 12 p
44385103	BioShield Technologies, Inc. (1997) Physical and Chemical Properties of BST Kleen Air 05. Unpublished study. 4 p.
44385200	BioShield Technologies, Inc. (1997) Submission of Product Chemistry Data in Support of the Application for Registration of BST Fabric Softener 175. Transmittal of 3 Studies.
44385201	BioShield Technologies, Inc. (1997) Product Identity of BST Fabric Softener 175. Unpublished study. 67 p
44385202	BioShield Technologies, Inc. (1997) Certification of Limits and Analytical Method for Enforcement of Limits for BST Fabric Softener 175. Unpublished study. 12 p.
44385203	BioShield Technologies, Inc. (1997) Physical and Chemical Properties of BST Fabric Softener 175. Unpublished study. 4 p.
44385300	BioShield Technologies, Inc. (1997) Submission of Product Chemistry Data in Support of the Application for Registration of BST Carpet and Upholstery Cleaner Aerosol 25. Transmittal of 3 Studies.
44385301	BioShield Technologies, Inc. (1997) Product Identity of BST Carpet and Upholstery Cleaner Aerosol 25. Unpublished study. 41 p.
44385302	BioShield Technologies, Inc. (1997) Certification of Limits and Analytical Method for Enforcement of Limits for BST Carpet and Upholstery Cleaner Aerosol 25. Unpublished study. 11 p.
44385303	BioShield Technologies, Inc. (1997) Physical and Chemical Properties of BST Carpet and Upholstery Cleaner Aerosol 25. Unpublished study. 4 p.
44385600	Bioshield Technologies, Inc. (1997) Submission of Product Chemistry Data in Support

	of the Application for Registration of BST Mold and Mildew Remover and All Purpose Cleaner 25. Transmittal of 3 Studies.
44385601	BioShield Technologies, Inc. (1997) Product Identity of BST Mold and Mildew Remover & All Purpose Cleaner 25. Unpublished study. 68 p.
44385602	BioShield Technologies, Inc. (1997) Certification of Limits and Analytical Method for Enforcement of Limits for BST Mold and Mildew Remover & All Purpose Cleaner 25. Unpublished study. 12 p.
44385603	BioShield Technologies, Inc. (1997) Physical and Chemical Properties of BST Mold and Mildew Remover & All Purpose Cleaner 25. Unpublished study. 4 p.
44385700	BioShield Technologies, Inc. (1997) Submission of Product Chemistry Data in Support of the Application for Registration of BST Carpet and Upholstery Concentrate C15. Transmittal of 3 Studies.
44385701	BioShield Technologies, Inc. (1997) Product Identity of BST Carpet and Upholstery Cleaner Concentrate C15. Unpublished study. 47 p.
44385702	BioShield Technologies, Inc. (1997) Certification of Limits and Analytical Method for Enforcement of Limits for BST Carpet and Upholstery Cleaner Concentrate C15: Lab Project Number: 102196/830.6317/BIOSHIELD. Unpublished study. 12 p
44385703	BioShield Technologies, Inc. (1997) Physical and Chemical Properties of BST Carpet and Upholstery Cleaner Concentrate C15. Unpublished study. 4 p.
44386000	BioShield Technologies, Inc. (1997) Submission of Product Chemistry Data in Support of the Application for Registration of BST Carpet and Upholstery Cleaner 25. Transmittal of 3 Studies
44386001	BioShield Technologies, Inc. (1997) Product Identity of BST Carpet and Upholstery Cleaner 25 Unpublished study. 37 p.
44386002	BioShield Technologies, Inc. (1997) Certification of Limits and Analytical Method for Enforcement of Limits for BST Carpet and Upholstery Cleaner 25: Lab Project Number: 102196/830/6317/BIOSHIELD. Unpublished study. 11 p
44386003	BioShield Technologies, Inc. (1997) Physical and Chemical Properties of BST Carpet and Upholstery Cleaner 25. Unpublished study. 4 p
44553500	BioShield Technologies, Inc. (1998) Submission of Toxicity Data in Support of the Application for Registration of BioShield AM 500 and BioShield 500 I. Transmittal of 1 Study.
44553501	Kuhn, J. (1998) Primary Eye Irritation Study in Rabbits: AM500: Final Report: Lab Project Number: 4263-98. Unpublished study prepared by Stillmeadow Inc. 21 p.
44789800	BioShield Technologies, Inc. (1999) Submission of Toxicity Data in Support of the Application for Registration of BST Protectant 50. Transmittal of 1 Study.
44789801	Kuhn, J. (1999) Primary Eye Irritation Study in Rabbits: AM 500: Final Report: Lab Project Number: 4842-98. Unpublished study prepared by Stillmeadow, Inc. 17 p. {OPPTS 870.2400}
44789900	BioShield Technologies, Inc. (1999) Submission of Toxicity Data in Support of the Application for Registration of BST Protectant Concentrate C15. Transmittal of 1 Study
44789901	Kuhn, J. (1999) Primary Eye Irritation Study in Rabbits: (BST Protectant Concentrate C15): Final Report: Lab Project Number: 4841-98. Unpublished study prepared by Stillmeadow, Inc. 17 p. (OPPTS 870.2400)
44876600	BioShield Technologies, Inc. (1999) Submission of Product Chemistry Data in Support of the Application for Registration of BioShield AMS 1860. Transmittal of 3 Studies.
44876601	Wells, D. (1999) AMS 1860-Preliminary Analysis: Lab Project Number: 13637.6119: 4.3.07(2). Unpublished study prepared by Springborn Laboratories, Inc. 51 p.

	{OPPTS. 830.1700}
44876602	Damico, J. (1999) AMS 1860-Certified Limits. Unpublished study prepared by BioShield Technologies, Inc. 4 p. {OPPTS. 830.1750}
44876603	Wells, D. (1999) AMS 1860-Product Chemistry Testing Test Guidelines, Series 830: Lab Project Number: 13637.6118. Unpublished study prepared by Springborn for an End-Use Product Following Product Properties Laboratories, Inc. 47 p. {OPPTS. 830.6302, 830.6303, 830.6304, 830.6315, 830.7300, 830.7100, 830.7000}
44885900	Bioshield Technologies, Inc. (1999) Submission of Product Chemistry Data in Support of the Application for Registration of Bioshield AMS 1860. Transmittal of 2 Studies.
44885901	Damico, J. (1999) Product Identity and Disclosure of Ingredients, Description of Beginning Materials and Manufacturing Process, and Discussion of the Formation of Impurities: AMS-1860. Unpublished study prepared by SciReg, Inc. 73 p. {OPPTS 830.1550, 830.1620, 830.1670}
44885902	Wells, D. (1999) AMS 1860--Determination of the Boiling Point: Lab Project Number: 13637.6120. Unpublished study prepared by Springborn Laboratories. 25 p. {OPPTS 830.7200}
44929100	BioShield Technologies, Inc. (1999) Submission of Product Chemistry Data in Support of the Application for Registration of AMS 1860. Transmittal of 1 Study.
44929101	Ward, T.; Rondon, C.; Boeri, R. (1999) AMS 1860: Determination of Stability at Normal and Elevated Temperatures and in the Presence study prepared by T.R. Wilbury Labs., Inc. 40 p. {OPPTS 830.6313}of Metals and Metal Ions: Lab Project Number: 1853-BS. Unpublished
44972400	BioShield Technlogies, Inc. (1999) Submission of Product Chemistry Data in Support of the Application for Registration of BSTI 1860. Transmittal of 1 Study.
44972401	Damico, J. (1999) BSTI 1860: Product Identity and Disclosure of Ingredients, Description of Beginning Materials and Manufacturing Process, and Discussion of the Formation of Impurities. Unpublished study prepared by SciReg, Inc. 43 p. {OPPTS 830.1550, 830.1620,830.1620, 830.1670, 830.1750}
45121300	BioShield Technologies, Inc. (2000) Submission of Product Chemistry and Toxicity Data in Support of the Application for Registration of AM 3651PI. Transmittal of 8 Studies
45121301	Smith, F. (2000) AM 3651PI: Product Identity and Composition, Description of Beginning Materials, Description of Formula Process, Discussion of the Formation of Impurities, and Certified Limits. Unpublished study prepared by SciReg, Inc. 40 p. {OPPTS 830.1550, 830.1600, 830.1650, 830.1670, 830.1750}
45121302	Wells, D. (1999) AM 3651PI--Determination of Storage Stability: Lab Project Number: 13637.0897.6107.865: 13637.6107. Unpublished study prepared by Springborn Labs., Inc. 36 p. {OPPTS 830.6317}
45121303	Kuhn, J. (1999) AM 3651PI: Acute Oral Toxicity Study in Rats: Final Report: Lab Project Number: 4850-98. Unpublished study prepared by Stillmeadow, Inc. 24 p. {OPPTS 870.1100}
45121304	Kuhn, J. (1999) AM 3651P: Acute Dermal Toxicity Study in Rabbits: Final Report: Lab Project Number: 4851-98. Unpublished study prepared by Stillmeadow, Inc. 22 p. {OPPTS 870.1200}
45121305	Bennick, J. (1999) AM 3651P: Acute Inhalation Toxicity Study in Rats: Final Report: Lab Project Number: 4852-98. Unpublished study prepared by Stillmeadow, Inc. 36 p. {OPPTS 870.2400}
45121306	Kuhn, J. (1999) AM 3651P: Primary Dermal Irritation Study in Rabbits: Final Report: Lab Project Number: 4854-98. Unpublished study prepared by Stillmeadow, Inc. 13 p. {OPPTS 870.2400}

RISK ASSIGNMENT FORM
Antimicrobial Division/Regulatory Management Branch I

A	Completed by Product Manager	
PRODUCT REVIEWER: Emilia		RMBI TEAM 31
Type of Action: Notification		EPA File Symbol/Reg No. 87583-2
Decision No. 457908	Submission No. 931639	Fee for Service Action Code:
FQPA Action Code:	Non-FQPA Action Code:	PRIA FEE AMOUNT:

	MONTH	DAY	YEAR
APPLICATION DATE	2	25	2011
EPA PIN DATE	2	27	2011
DATE PM RECEIVED FROM FRONT END			2011
DATE SENT TO SCIENCE			
DATE RECEIVED FROM SCIENCE			
DATE DUE TO PM	3	29.	

Type of Data:	PSB Product Chemistry	PSB Acute Toxicology	PSB Efficacy	RASSB Environmental Fate	RASSB Ecological Effects	RASSB Chronic Toxicology	RASSB Exposure/ Residue

ATTACHMENTS: -LABELING -CSF(S) -DATA -OTHERS

B	For Arctic Slope Contract Only	
	Contract No.: 0052	*ARCTIC SLOPE*/MANAGER
	Final Task: Signature _____	_____ (Total hrs)
C	Reviewer Comments:	

DATE FEE PAID:	RESPONSE CODE:	RESPONSE DATE: